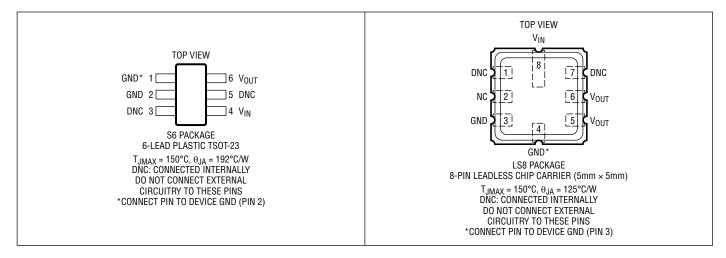
ABSOLUTE MAXIMUM RATINGS (Note 1)

Input Voltage V _{IN} to GND	0.3V to 38V
Output Voltage V _{OUT}	$-0.3V$ to $V_{IN} + 0.3V$
Output Short-Circuit Duration	Indefinite
Specified Temperature Range	
I-Grade	40°C to 85°C
H-Grade	40°C to 125°C
MP-Grade	–55°C to 125°C

PIN CONFIGURATION



ORDER INFORMATION

Lead Free Finish

TAPE AND REEL (MINI)	TAPE AND REEL	PART MARKING*	PACKAGE DESCRIPTION	SPECIFIED TEMPERATURE RANGE
LT6654AIS6-1.25#TRMPBF	LT6654AIS6-1.25#TRPBF	LTFVD	6-Lead Plastic TSOT-23	-40°C to 85°C
LT6654BIS6-1.25#TRMPBF	LT6654BIS6-1.25#TRPBF	LTFVD	6-Lead Plastic TSOT-23	-40°C to 85°C
LT6654AHS6-1.25#TRMPBF	LT6654AHS6-1.25#TRPBF	LTFVD	6-Lead Plastic TSOT-23	-40°C to 125°C
LT6654BHS6-1.25#TRMPBF	LT6654BHS6-1.25#TRPBF	LTFVD	6-Lead Plastic TSOT-23	-40°C to 125°C
LT6654AMPS6-1.25#TRMPBF	LT6654AMPS6-1.25#TRPBF	LTFVD	6-Lead Plastic TSOT-23	-55°C to 125°C
LT6654BMPS6-1.25#TRMPBF	LT6654BMPS6-1.25#TRPBF	LTFVD	6-Lead Plastic TSOT-23	-55°C to 125°C
LT6654AIS6-2.048#TRMPBF	LT6654AIS6-2.048#TRPBF	LTFVF	6-Lead Plastic TSOT-23	-40°C to 85°C
LT6654BIS6-2.048#TRMPBF	LT6654BIS6-2.048#TRPBF	LTFVF	6-Lead Plastic TSOT-23	-40°C to 85°C
LT6654AHS6-2.048#TRMPBF	LT6654AHS6-2.048#TRPBF	LTFVF	6-Lead Plastic TSOT-23	-40°C to 125°C
LT6654BHS6-2.048#TRMPBF	LT6654BHS6-2.048#TRPBF	LTFVF	6-Lead Plastic TSOT-23	-40°C to 125°C
LT6654AMPS6-2.048#TRMPBF	LT6654AMPS6-2.048#TRPBF	LTFVF	6-Lead Plastic TSOT-23	–55°C to 125°C
LT6654BMPS6-2.048#TRMPBF	LT6654BMPS6-2.048#TRPBF	LTFVF	6-Lead Plastic TSOT-23	–55°C to 125°C

ORDER INFORMATION

Lead Free Finish

TAPE AND REEL (MINI)	Lead Free Finish							
LT6654BISG-2.5#TRMPBF	TAPE AND REEL (MINI)	TAPE AND REEL	PART MARKING* PACKAGE DESCRIPTION		SPECIFIED TEMPERATURE RANGE			
LT6654AHS6-2.5#TRMPBF LT6654AHS6-2.5#TRMPBF LT694 Plastic TS0T-23 -40°C to 125°C LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LTFLYY 6-Lead Plastic TS0T-23 -55°C to 125°C LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRPBF LTFLY 6-Lead Plastic TS0T-23 -55°C to 125°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRMPBF LTFVG 6-Lead Plastic TS0T-23 -40°C to 85°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -40°C to 85°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -40°C to 125°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -40°C to 125°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -55°C to 125°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -55°C to 125°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -55°C to 125°C LT6654AMS6-3.3#TRMPBF LT6654AMS6-3.3#TRPBF LTFVH 6-Lead Plastic TS0T-23 -40°C to 85°C	LT6654AIS6-2.5#TRMPBF	LT6654AIS6-2.5#TRPBF	LTFJY	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654BHS6-2.5#TRMPBF LT6654BHS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-3#TRMPBF LT6654AMPS6-4.096#TRMPBF </td <td>LT6654BIS6-2.5#TRMPBF</td> <td>LT6654BIS6-2.5#TRPBF</td> <td>LTFJY</td> <td>6-Lead Plastic TSOT-23</td> <td>-40°C to 85°C</td>	LT6654BIS6-2.5#TRMPBF	LT6654BIS6-2.5#TRPBF	LTFJY	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LTFUY 6-Lead Plastic TS0T-23 −55°C to 125°C LT6654AMPS6-2.5#TRMPBF LT6654AMPS6-2.5#TRMPBF LTFVG 6-Lead Plastic TS0T-23 −55°C to 125°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRMPBF LTFVG 6-Lead Plastic TS0T-23 −40°C to 85°C LT6654AMS6-3#TRMPBF LT6654AMS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 −40°C to 125°C LT6654AMS6-3#TRMPBF LT6654AMPS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 −40°C to 125°C LT6654AMPS6-3#TRMPBF LT6654AMPS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 −55°C to 125°C LT6654AMS6-3.3#TRMPBF LT6654AMPS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 −55°C to 125°C LT6654AMS6-3.3#TRMPBF LT6654AMS6-3.3#TRMPBF LTFVH 6-Lead Plastic TS0T-23 −40°C to 85°C LT6654AMS6-3.3#TRMPBF LT6654AMS6-3.3#TRMPBF LTFVH 6-Lead Plastic TS0T-23 −40°C to 125°C LT6654AMS6-3.3#TRMPBF LT6654AMS6-3.3#TRMPBF LTFVH 6-Lead Plastic TS0T-23 −40°C to 125°C LT6654AMS6-3.3#TRMPBF LT6654AMS6-3.3#TRMPBF LTFVH 6-Lead Plastic TS	LT6654AHS6-2.5#TRMPBF	LT6654AHS6-2.5#TRPBF	LTFJY	6-Lead Plastic TSOT-23	-40°C to 125°C			
LT6654BMPS6-2.5#TRMPBF LT6654BMPS6-2.5#TRMPBF LT70G 6-Lead Plastic TS0T-23 -55°C to 125°C LT6654BAIS6-3#TRMPBF LT6654BIS6-3#TRPBF LT7VG 6-Lead Plastic TS0T-23 -40°C to 85°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LT7VG 6-Lead Plastic TS0T-23 -40°C to 125°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -40°C to 125°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -55°C to 125°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVG 6-Lead Plastic TS0T-23 -55°C to 125°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVH 6-Lead Plastic TS0T-23 -40°C to 85°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVH 6-Lead Plastic TS0T-23 -40°C to 125°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVH 6-Lead Plastic TS0T-23 -40°C to 125°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVH 6-Lead Plastic TS0T-23 -40°C to 125°C LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVH 6-Lead Plastic TS0T-23 -40°C to 1	LT6654BHS6-2.5#TRMPBF	LT6654BHS6-2.5#TRPBF	LTFJY	6-Lead Plastic TSOT-23	-40°C to 125°C			
LT6654AIS6-3#TRMPBF	LT6654AMPS6-2.5#TRMPBF	LT6654AMPS6-2.5#TRPBF	LTFJY	6-Lead Plastic TSOT-23	–55°C to 125°C			
LT6654BIS6-3#TRMPBF LT6654BIS6-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BHS6-3#TRMPBF LT6654BHS6-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-3#TRMPBF LT6654BHS6-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-3#TRMPBF LT6654BMPS6-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3FRMPBF LTFVH	LT6654BMPS6-2.5#TRMPBF	LT6654BMPS6-2.5#TRPBF	LTFJY	6-Lead Plastic TSOT-23	–55°C to 125°C			
LTG654AHSG-3#TRMPBF LTG654AHSG-3#TRMPBF LTFVG 6-Lead Plastic TSOT-23 −40°C to 125°C LTG654AMPSG-3#TRMPBF LTG654AMPSG-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 −40°C to 125°C LTG654AMPSG-3#TRMPBF LTG654AMPSG-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 −55°C to 125°C LTG654AISG-3.3#TRMPBF LTG654AISG-3.3#TRMPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 85°C LTG654AISG-3.3#TRMPBF LTG654AISG-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 85°C LTG654AISG-3.3#TRMPBF LTG654AISG-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LTG654AISG-3.3#TRMPBF LTG654AISG-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LTG654AINSG-3.3#TRMPBF LTG654AINSG-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LTG654AINSG-3.3#TRMPBF LTG654AINSG-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LTG654AINSG-3.3#TRMPBF LTG654AINSG-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LTG654AINSG-3.3#TRMPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 85	LT6654AIS6-3#TRMPBF	LT6654AIS6-3#TRPBF	LTFVG	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654BHS6-3#TRMPBF LT6654BHS6-3#TRMPBF LT6VG 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654AMPS6-3#TRMPBF LT6654AMPS6-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-3#TRMPBF LT6654BMPS6-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BINS6-3.3#TRMPBF LT6654BINS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BINS6-3.3#TRMPBF LT6654BINS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BINS6-3.3#TRMPBF LT6654BINS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BINS6-3.3#TRMPBF LT6654BINS6-3.3#TRPBF LTFVJ 6-Lead Plast	LT6654BIS6-3#TRMPBF	LT6654BIS6-3#TRPBF	LTFVG	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654AMPS6-3#TRMPBF LT6654AMPS6-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-3#TRMPBF LT6654BMPS6-3#TRPBF LTFVG 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654AIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654AIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic	LT6654AHS6-3#TRMPBF	LT6654AHS6-3#TRPBF	LTFVG	6-Lead Plastic TSOT-23	-40°C to 125°C			
LT6654BMPS6-3#TRMPBF LT6654BMPS6-3#TRMPBF LTFVG 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654AIS6-3.3#TRMPBF LT6654AIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead P	LT6654BHS6-3#TRMPBF	LT6654BHS6-3#TRPBF	LTFVG	6-Lead Plastic TSOT-23	-40°C to 125°C			
LT6654AIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BHS6-3.3#TRMPBF LT6654BHS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-3.3#TRMPBF LT6654BHS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BMS6-4.096#TRMPBF LT6654BMS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BMS6-4.096#TRMPBF LT6654BMS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMS6-4.096#TRMPBF LT6654BMS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMS6-5#TRMPBF LT6654BMS6-5#TRPBF LTFVJ	LT6654AMPS6-3#TRMPBF	LT6654AMPS6-3#TRPBF	LTFVG	6-Lead Plastic TSOT-23	–55°C to 125°C			
LT6654BIS6-3.3#TRMPBF LT6654BIS6-3.3#TRMPBF LTFVH 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654AHS6-3.3#TRMPBF LT6654BHS6-3.3#TRMPBF LTFVH 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-3.3#TRMPBF LT6654BHS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BNS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BNS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BNS6-4.096#TRMPBF LT6654BNS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BNS6-5#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BNPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BNPS6-5#TRPBF LTFVK	LT6654BMPS6-3#TRMPBF	LT6654BMPS6-3#TRPBF	LTFVG	6-Lead Plastic TSOT-23	–55°C to 125°C			
LT6654AHS6-3.3#TRMPBF LT6654AHS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-3.3#TRMPBF LT6654BHS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BHS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BHS6-5.#TRMPBF LT6654BHS6-5#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BHS6-5.#TRMPBF LT6654BHS6-5#TRPBF LTFVK	LT6654AIS6-3.3#TRMPBF	LT6654AIS6-3.3#TRPBF	LTFVH	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654BHS6-3.3#TRMPBF LT6654BHS6-3.3#TRPBF LTPVH 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654AMPS6-3.3#TRMPBF LT6654AMPS6-3.3#TRPBF LTPVH 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTPVH 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BMS6-5#TRMPBF LT6654BMS6-5#TRPBF LTFVK	LT6654BIS6-3.3#TRMPBF	LT6654BIS6-3.3#TRPBF	LTFVH	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654AMPS6-3.3#TRMPBF LT6654AMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654AIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK <td>LT6654AHS6-3.3#TRMPBF</td> <td>LT6654AHS6-3.3#TRPBF</td> <td>LTFVH</td> <td>6-Lead Plastic TSOT-23</td> <td>-40°C to 125°C</td>	LT6654AHS6-3.3#TRMPBF	LT6654AHS6-3.3#TRPBF	LTFVH	6-Lead Plastic TSOT-23	-40°C to 125°C			
LT6654BMPS6-3.3#TRMPBF LT6654BMPS6-3.3#TRPBF LTFVH 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654AIS6-4.096#TRMPBF LT6654AIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK <t< td=""><td>LT6654BHS6-3.3#TRMPBF</td><td>LT6654BHS6-3.3#TRPBF</td><td>LTFVH</td><td>6-Lead Plastic TSOT-23</td><td>-40°C to 125°C</td></t<>	LT6654BHS6-3.3#TRMPBF	LT6654BHS6-3.3#TRPBF	LTFVH	6-Lead Plastic TSOT-23	-40°C to 125°C			
LT6654AIS6-4.096#TRMPBF LT6654AIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654AHS6-4.096#TRMPBF LT6654AHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-4.096#TRMPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-4.096#TRMPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-4.096#TRMPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BMS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BIS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BHS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-5#TRMPBF	LT6654AMPS6-3.3#TRMPBF	LT6654AMPS6-3.3#TRPBF	LTFVH	6-Lead Plastic TSOT-23	–55°C to 125°C			
LT6654BIS6-4.096#TRMPBF LT6654BIS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654AHS6-4.096#TRMPBF LT6654AHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C	LT6654BMPS6-3.3#TRMPBF	LT6654BMPS6-3.3#TRPBF	LTFVH	6-Lead Plastic TSOT-23	–55°C to 125°C			
LT6654AHS6-4.096#TRMPBF LT6654AHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSO	LT6654AIS6-4.096#TRMPBF	LT6654AIS6-4.096#TRPBF	LTFVJ	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654BHS6-4.096#TRMPBF LT6654BHS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654AMPS6-4.096#TRMPBF LT6654AMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654AIS6-5#TRMPBF LT6654AIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to	LT6654BIS6-4.096#TRMPBF	LT6654BIS6-4.096#TRPBF	LTFVJ	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654AMPS6-4.096#TRMPBF LT6654AMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654AIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BMLS8-2.5#PBF	LT6654AHS6-4.096#TRMPBF	LT6654AHS6-4.096#TRPBF	LTFVJ 6-Lead Plastic TSOT-23		-40°C to 125°C			
LT6654BMPS6-4.096#TRMPBF LT6654BMPS6-4.096#TRPBF LTFVJ 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654AIS6-5#TRMPBF LT6654AIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.5#PBF 665425 </td <td>LT6654BHS6-4.096#TRMPBF</td> <td>LT6654BHS6-4.096#TRPBF</td> <td colspan="2">LTFVJ 6-Lead Plastic TSOT-23</td> <td>-40°C to 125°C</td>	LT6654BHS6-4.096#TRMPBF	LT6654BHS6-4.096#TRPBF	LTFVJ 6-Lead Plastic TSOT-23		-40°C to 125°C			
LT6654AIS6-5#TRMPBF LT6654AIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 85°C LT6654AHS6-5#TRMPBF LT6654AHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF <t< td=""><td>LT6654AMPS6-4.096#TRMPBF</td><td>LT6654AMPS6-4.096#TRPBF</td><td>LTFVJ</td><td>6-Lead Plastic TSOT-23</td><td>-55°C to 125°C</td></t<>	LT6654AMPS6-4.096#TRMPBF	LT6654AMPS6-4.096#TRPBF	LTFVJ	6-Lead Plastic TSOT-23	-55°C to 125°C			
LT6654BIS6-5#TRMPBF LT6654BIS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 85°C LT6654AHS6-5#TRMPBF LT6654AHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LEAD FREE FINISH† PART MARKING* PACKAGE DESCRIPTION SPECIFIED TEMPERATURE RANGE LT6654BHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C	LT6654BMPS6-4.096#TRMPBF	LT6654BMPS6-4.096#TRPBF	LTFVJ	6-Lead Plastic TSOT-23	–55°C to 125°C			
LT6654AHS6-5#TRMPBF LT6654AHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -40°C to 125°C LT6654AMPS6-5#TRMPBF LT6654AMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 -55°C to 125°C LEAD FREE FINISH† PART MARKING* PACKAGE DESCRIPTION SPECIFIED TEMPERATURE RANGE LT6654AHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LT6654AIS6-5#TRMPBF	LT6654AIS6-5#TRPBF	LTFVK	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654BHS6-5#TRMPBF LT6654BHS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −40°C to 125°C LT6654AMPS6-5#TRMPBF LT6654AMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LEAD FREE FINISH [†] PART MARKING* PACKAGE DESCRIPTION SPECIFIED TEMPERATURE RANGE LT6654AHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C	LT6654BIS6-5#TRMPBF	LT6654BIS6-5#TRPBF	LTFVK	6-Lead Plastic TSOT-23	-40°C to 85°C			
LT6654AMPS6-5#TRMPBF LT6654AMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LEAD FREE FINISH [†] PART MARKING* PACKAGE DESCRIPTION SPECIFIED TEMPERATURE RANGE LT6654AHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.048#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C	LT6654AHS6-5#TRMPBF	LT6654AHS6-5#TRPBF	LTFVK	6-Lead Plastic TSOT-23	-40°C to 125°C			
LT6654BMPS6-5#TRMPBF LT6654BMPS6-5#TRPBF LTFVK 6-Lead Plastic TSOT-23 −55°C to 125°C LEAD FREE FINISH [†] PART MARKING* PACKAGE DESCRIPTION SPECIFIED TEMPERATURE RANGE LT6654AHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C	LT6654BHS6-5#TRMPBF	LT6654BHS6-5#TRPBF	LTFVK	6-Lead Plastic TSOT-23	-40°C to 125°C			
LEAD FREE FINISH† PART MARKING* PACKAGE DESCRIPTION SPECIFIED TEMPERATURE RANGE LT6654AHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654AHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LT6654AMPS6-5#TRMPBF	LT6654AMPS6-5#TRPBF	LTFVK	6-Lead Plastic TSOT-23	–55°C to 125°C			
LT6654AHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654AHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LT6654BMPS6-5#TRMPBF	LT6654BMPS6-5#TRPBF	LTFVK	6-Lead Plastic TSOT-23	–55°C to 125°C			
LT6654BHLS8-2.048#PBF 542048 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654AHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LEAD FREE FINISH [†]	PART MARKING*	PACKAGE DESCRI	PTION	SPECIFIED TEMPERATURE RANGE			
LT6654AHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LT6654AHLS8-2.048#PBF	542048	8-Lead Ceramic LCC (5mm × 5mm)		-40°C to 125°C			
LT6654BHLS8-2.5#PBF 665425 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LT6654BHLS8-2.048#PBF	542048	8-Lead Ceramic LCC (5mm × 5mm)		-40°C to 125°C			
LT6654AHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LT6654AHLS8-2.5#PBF	665425	8-Lead Ceramic LC	CC (5mm × 5mm)	-40°C to 125°C			
LT6654BHLS8-4.096#PBF 544096 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LT6654BHLS8-2.5#PBF	665425	8-Lead Ceramic LC	CC (5mm × 5mm)	-40°C to 125°C			
	LT6654AHLS8-4.096#PBF	544096	8-Lead Ceramic LC	CC (5mm × 5mm)	-40°C to 125°C			
TOOLANII 00 5 // DD5	LT6654BHLS8-4.096#PBF	544096	8-Lead Ceramic LC	CC (5mm × 5mm)	-40°C to 125°C			
LT6654AHLS8-5#PBF 66545 8-Lead Ceramic LCC (5mm × 5mm) −40°C to 125°C	LT6654AHLS8-5#PBF	66545	8-Lead Ceramic LC	CC (5mm × 5mm)	-40°C to 125°C			
LT6654BHLS8-5#PBF 66545 8-Lead Ceramic LCC (5mm × 5mm) -40°C to 125°C	LT6654BHLS8-5#PBF	66545	8-Lead Ceramic LC	CC (5mm × 5mm)	-40°C to 125°C			

ORDER INFORMATION

AUTOMOTIVE PRODUCTS**					
TAPE AND REEL (MINI)	TAPE AND REEL	PART MARKING*	PACKAGE DESCRIPTION	SPECIFIED TEMPERATURE RANGE	
LT6654AHS6-1.25#WTRMPBF	LT6654AHS6-1.25#WTRPBF	LTFVD	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654BHS6-1.25#WTRMPBF	LT6654BHS6-1.25#WTRPBF	LTFVD	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654AHS6-2.048#WTRMPBF	LT6654AHS6-2.048#WTRPBF	LTFVF	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654BHS6-2.048#WTRMPBF	LT6654BHS6-2.048#WTRPBF	LTFVF	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654AHS6-2.5#WTRMPBF	LT6654AHS6-2.5#WTRPBF	LTFJY	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654BHS6-2.5#WTRMPBF	LT6654BHS6-2.5#WTRPBF	LTFJY	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654AHS6-3#WTRMPBF	LT6654AHS6-3#WTRPBF	LTFVG	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654BHS6-3#WTRMPBF	LT6654BHS6-3#WTRPBF	LTFVG	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654AHS6-3.3#WTRMPBF	LT6654AHS6-3.3#WTRPBF	LTFVH	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654BHS6-3.3#WTRMPBF	LT6654BHS6-3.3#WTRPBF	LTFVH	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654AHS6-4.096#WTRMPBF	LT6654AHS6-4.096#WTRPBF	LTFVJ	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654BHS6-4.096#WTRMPBF	LT6654BHS6-4.096#WTRPBF	LTFVJ	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654AHS6-5#WTRMPBF	LT6654AHS6-5#WTRPBF	LTFVK	6-Lead Plastic TSOT-23	-40°C to 125°C	
LT6654BHS6-5#WTRMPBF	LT6654BHS6-5#WTRPBF	LTFVK	6-Lead Plastic TSOT-23	-40°C to 125°C	

TRM = 500 pieces. *Temperature grades are identified by a label on the shipping container.

Contact the factory for parts specified with wider operating temperature ranges.

Contact the factory for information on lead based finish parts.

Tape and reel specifications. Some packages are available in 500 unit reels through designated sales channels with #TRMPBF suffix.

†This product is only offered in trays. For more information go to: https://www.analog.com/en/design-center/packaging-quality-symbols-footprints.html

^{**}Versions of this part are available with controlled manufacturing to support the quality and reliability requirements of automotive applications. These models are designated with a #W suffix. Only the automotive grade products shown are available for use in automotive applications. Contact your local Analog Devices account representative for specific product ordering information and to obtain the specific Automotive Reliability reports for these models.

AVAILABLE OPTIONS

OUTPUT VOLTAGE	INITIAL ACCURACY	TEMPERATURE COEFFICIENT	ORDER PART NUMBER**	SPECIFIED TEMPERATURE RANGE
1.25V	0.05%	10ppm/°C	LT6654AIS6-1.25	-40°C to 85°C
	0.1%	20ppm/°C	LT6654BIS6-1.25	–40°C to 85°C
	0.05%	10ppm/°C	LT6654AHS6-1.25	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHS6-1.25	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AMPS6-1.25	–55°C to 125°C
	0.1%	20ppm/°C	LT6654BMPS6-1.25	–55°C to 125°C
2.048V	0.05%	10ppm/°C	LT6654AIS6-2.048	–40°C to 85°C
	0.1%	20ppm/°C	LT6654BIS6-2.048	–40°C to 85°C
	0.05%	10ppm/°C	LT6654AHS6-2.048	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AHLS8-2.048	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHS6-2.048	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHLS8-2.048	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AMPS6-2.048	−55°C to 125°C
	0.1%	20ppm/°C	LT6654BMPS6-2.048	–55°C to 125°C
2.5V	0.05%	10ppm/°C	LT6654AIS6-2.5	–40°C to 85°C
	0.1%	20ppm/°C	LT6654BIS6-2.5	–40°C to 85°C
	0.05%	10ppm/°C	LT6654AHS6-2.5	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AHLS8-2.5	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHS6-2.5	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHLS8-2.5	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AMPS6-2.5	–55°C to 125°C
	0.1%	20ppm/°C	LT6654BMPS6-2.5	–55°C to 125°C
3V	0.05%	10ppm/°C	LT6654AIS6-3	–40°C to 85°C
	0.1%	20ppm/°C	LT6654BIS6-3	–40°C to 85°C
	0.05%	10ppm/°C	LT6654AHS6-3	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHS6-3	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AMPS6-3	−55°C to 125°C
	0.1%	20ppm/°C	LT6654BMPS6-3	–55°C to 125°C
3.3V	0.05%	10ppm/°C	LT6654AIS6-3.3	–40°C to 85°C
	0.1%	20ppm/°C	LT6654BIS6-3.3	–40°C to 85°C
	0.05%	10ppm/°C	LT6654AHS6-3.3	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHS6-3.3	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AMPS6-3.3	−55°C to 125°C
	0.1%	20ppm/°C	LT6654BMPS6-3.3	−55°C to 125°C
4.096V	0.05%	10ppm/°C	LT6654AIS6-4.096	–40°C to 85°C
	0.1%	20ppm/°C	LT6654BIS6-4.096	–40°C to 85°C
	0.05%	10ppm/°C	LT6654AHS6-4.096	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AHLS8-4.096	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHS6-4.096	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHLS8-4.096	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AMPS6-4.096	−55°C to 125°C
	0.1%	20ppm/°C	LT6654BMPS6-4.096	−55°C to 125°C
5V	0.05%	10ppm/°C	LT6654AIS6-5	–40°C to 85°C
	0.1%	20ppm/°C	LT6654BIS6-5	–40°C to 85°C
	0.05%	10ppm/°C	LT6654AHS6-5	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AHLS8-5	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHS6-5	–40°C to 125°C
	0.1%	20ppm/°C	LT6654BHLS8-5	–40°C to 125°C
	0.05%	10ppm/°C	LT6654AMPS6-5	–55°C to 125°C
	0.1%	20ppm/°C	LT6654BMPS6-5	–55°C to 125°C

^{**} See the Order Information section for complete part number listing.

ELECTRICAL CHARACTERISTICS The • denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $T_A = 25^{\circ}C$, $C_L = 1\mu F$ and $V_{IN} = V_{OUT} + 0.5V$, unless otherwise noted. For LT6654-1.25, $V_{IN} = 2.4V$, unless otherwise noted.

PARAMETER	CONDITIONS		MIN	TYP	MAX	UNITS
Output Voltage Accuracy	LT6654A LT6654B LT6654AI LT6654BI LT6654AH LT6654BH LT6654AMP LT6654BMP	•	-0.05 -0.10 -0.175 -0.35 -0.215 -0.43 -0.23 -0.46		0.05 0.10 0.175 0.35 0.215 0.43 0.23 0.46	% % % % %
Output Voltage Temperature Coefficient (Note 3)	LT6654A LT6654B	•		3 10	10 20	ppm/°C ppm/°C
Line Regulation	V_{OUT} + 0.5V \leq V_{IN} \leq 36V LT6654-2.048, LT6654-2.5, LT6654-3, LT6654-3.3, LT6654-4.096, LT6654-5	•		1.2	5 10	ppm/V ppm/V
	2.4V ≤ V _{IN} ≤ 36V LT6654-1.25	•		1.2	5 10	ppm/V ppm/V
Load Regulation (Note 4)	I _{OUT(SOURCE)} = 10mA LT6654-2.048, LT6654-2.5, LT6654-3, LT6654-3.3, LT6654-4.096, LT6654-5 LT6654-1.25	•		3 6 10	8 15 15 20 30 45	ppm/mA ppm/mA ppm/mA ppm/mA ppm/mA ppm/mA
Load Regulation (Note 4)	I _{OUT(SINK)} = 10mA LT6654-2.048, LT6654-2.5, LT6654-3, LT6654-3.3, LT6654-4.096, LT6654-5 LT6654-1.25 LT6654LS8	•		9 15 30	20 30 25 30 60 90	ppm/mA ppm/mA ppm/mA ppm/mA ppm/mA ppm/mA
Dropout Voltage (Note 5)	$V_{IN} - V_{OUT}$, $\Delta V_{OUT} = 0.1\%$ $I_{OUT} = 0$ mA LT6654-2.048, $LT6654-2.5$, $LT6654-3$, LT6654-3.3, $LT6654-4.096$, $LT6654-5I_{OUT(SOURCE)} = 10mAI_{OUT(SINK)} = -10mA$	•		55	100 120 450 50	mV mV mV
Minimum Input Voltage	LT6654-1.25, $\Delta V_{OUT} = 0.1\%$, $I_{OUT} = 0$ mA LT6654-1.25, $\Delta V_{OUT} = 0.1\%$, $I_{OUT} = \pm 10$ mA	•		1.5	1.6 1.8 2.4	V V
Supply Current	No Load	•		350	600	μA μA
Output Short-Circuit Current	Short V _{OUT} to GND Short V _{OUT} to V _{IN}			40 30		mA mA
Output Voltage Noise (Note 6)	$\begin{array}{c} 0.1 \text{Hz} \leq f \leq 10 \text{Hz} \\ \text{LT6654-1.25} \\ \text{LT6654-2.048} \\ \text{LT6654-2.5} \\ \text{LT6654-3} \\ \text{LT6654-3.3} \\ \text{LT6654-4.096} \\ \text{LT6654-5} \\ 10 \text{Hz} \leq f \leq 1 \text{kHz} \end{array}$			0.8 1.0 1.5 1.6 1.7 2.0 2.2 2.0		ppm _{P-P} ppm _{P-P} ppm _{P-P} ppm _{P-P} ppm _{P-P} ppm _{P-P} ppm _{RMS}

ELECTRICAL CHARACTERISTICS The \bullet denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $T_A = 25^{\circ}C$, $C_L = 1\mu F$ and $V_{IN} = V_{OUT} + 0.5V$, unless otherwise noted. For LT6654-1.25, $V_{IN} = 2.4V$, unless otherwise noted.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Turn-On Time	0.1% Settling, C _{LOAD} = 1μF		150		μѕ
Long-Term Drift of Output Voltage (Note 7)	LT6654S6 LT6654LS8		60 15		ppm/√kHr ppm/√kHr
Hysteresis (Note 8)	S6 ΔT = 0°C to 70°C ΔT = -40°C to 85°C ΔT = -40°C to 125°C ΔT = -55°C to 125°C		15 30 40 50		ppm ppm ppm ppm
	$\Delta T = 0^{\circ}\text{C} \text{ to } 70^{\circ}\text{C}$ $\Delta T = -40^{\circ}\text{C} \text{ to } 85^{\circ}\text{C}$ $\Delta T = -40^{\circ}\text{C} \text{ to } 125^{\circ}\text{C}$ $\Delta T = -55^{\circ}\text{C} \text{ to } 125^{\circ}\text{C}$		3 11 15 20		ppm ppm ppm ppm

Note 1: Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. Exposure to any Absolute Maximum Rating condition for extended periods may affect device reliability and lifetime.

Note 2: If the parts are stored outside of the specified temperature range, the output may shift due to hysteresis.

Note 3: Temperature coefficient is measured by dividing the maximum change in output voltage by the specified temperature range.

Note 4: Load regulation is measured on a pulse basis from no load to the specified load current. Output changes due to die temperature change must be taken into account separately.

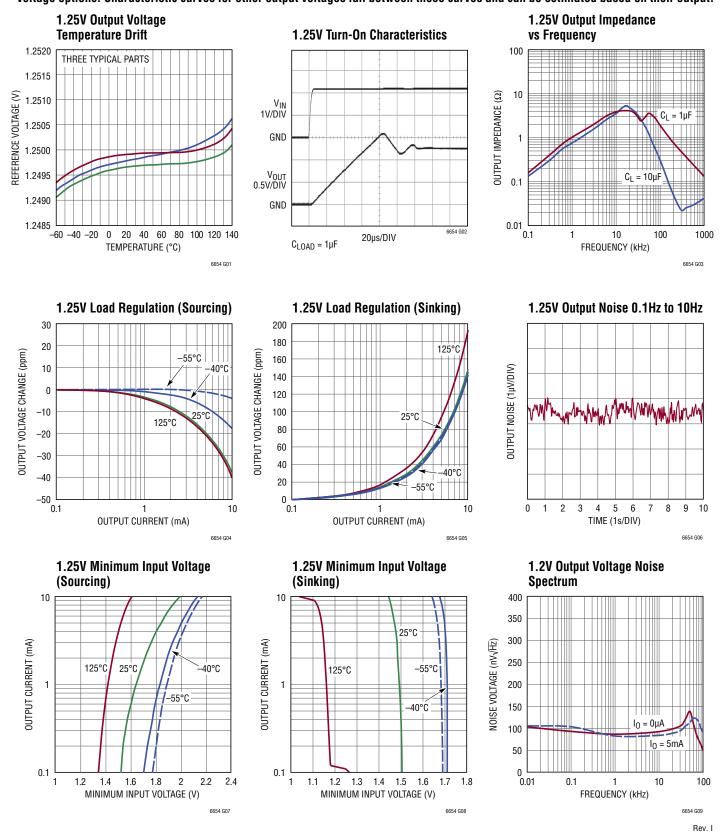
Note 5: Excludes load regulation errors.

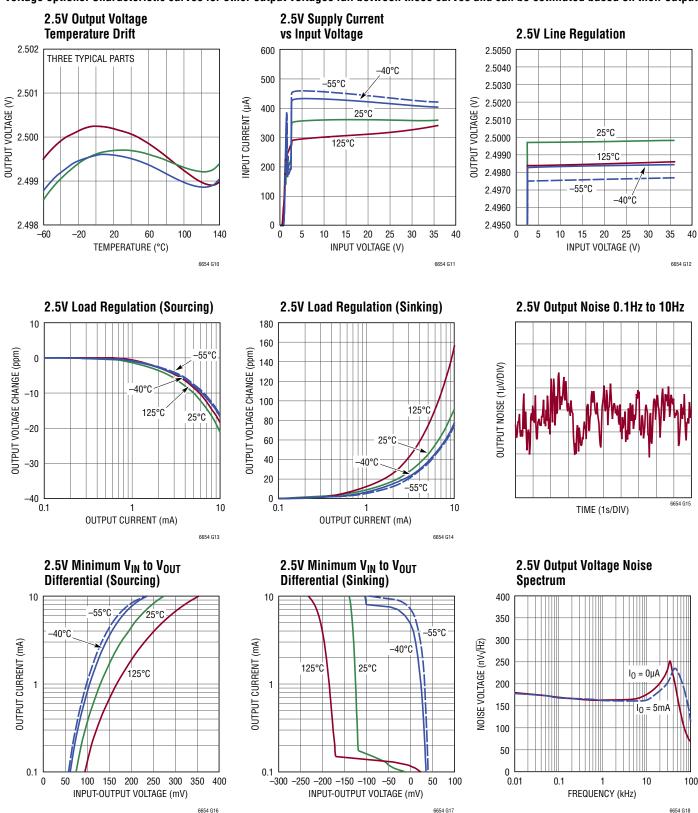
Note 6: Peak-to-peak noise is measured with a 1-pole highpass filter at 0.1Hz and 2-pole lowpass filter at 10Hz. The unit is enclosed in a still-air environment to eliminate thermocouple effects on the leads. The test time is 10 seconds. RMS noise is measured on a spectrum analyzer in a shielded environment where the intrinsic noise of the instrument is removed to determine the actual noise of the device.

Note 7: Long-term stability typically has a logarithmic characteristic and therefore, changes after 1000 hours tend to be much smaller than before that time. Total drift in the second thousand hours is normally less than one third that of the first thousand hours with a continuing trend toward reduced drift with time. Long-term stability will also be affected by differential stresses between the IC and the board material created during board assembly.

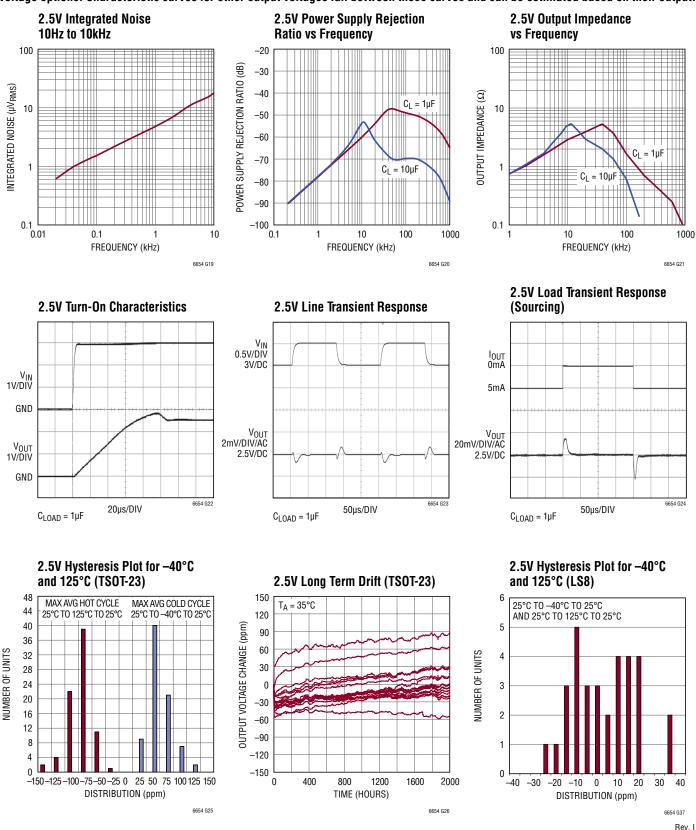
Note 8: Hysteresis in output voltage is created by package stress that differs depending on whether the IC was previously at a higher or lower temperature. Output voltage is always measured at 25°C, but the IC is cycled to the hot or cold temperature limit before successive measurements. Hysteresis measures the maximum output change for the averages of three hot or cold temperature cycles. For instruments that are stored at well controlled temperatures (within 20 or 30 degrees of operational temperature), it is usually not a dominant error source. Typical hysteresis is the worst-case of 25°C to cold to 25°C or 25°C to hot to 25°C, preconditioned by one thermal cycle.

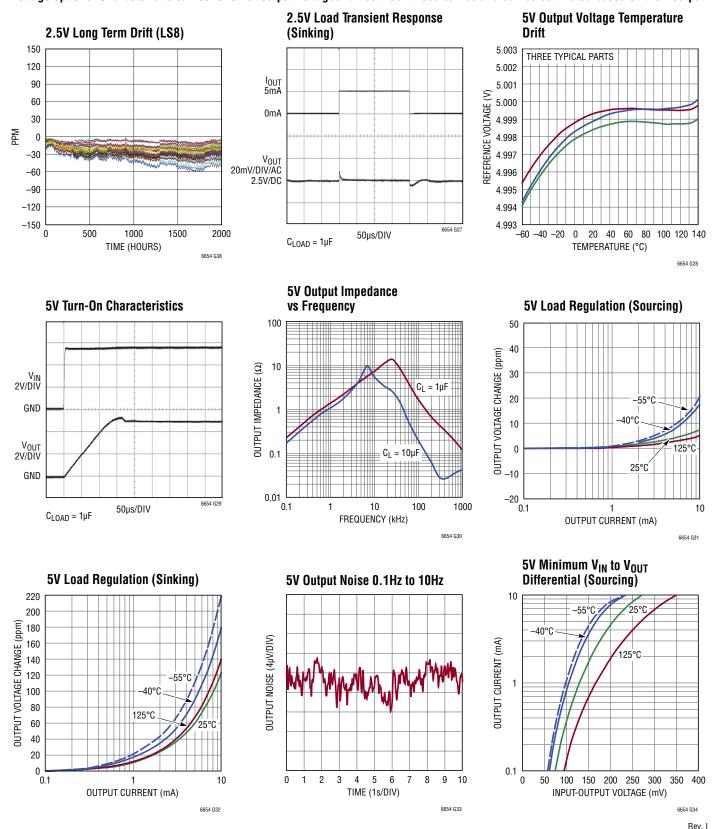
Note 9: The stated temperature is typical for soldering of the leads during manual rework. For detailed IR reflow recommendations, refer to the Applications Information section.

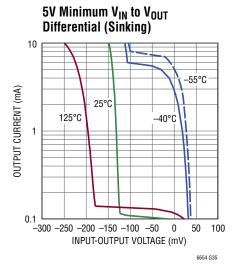


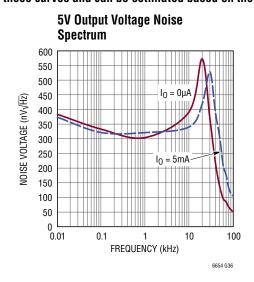


Rev.









PIN FUNCTIONS

(LS8)

DNC (Pins 1, 7): Do Not Connect. Keep leakage current from this pin to V_{IN} or GND to a minimum.

NC (Pin 2): Not internally connected. May be tied to V_{IN} , V_{OUT} , GND or floated.

GND (Pin 3): Internal Function. This pin must be tied to GND near Pin 4.

GND (Pin 4): Primary Device Ground. Pin 3 and the load ground should be star-connected to Pin 4.

 $\textbf{V}_{\textbf{OUT}}$ (Pin 5): $V_{\textbf{OUT}}$ Pin. An output capacitor of $1\mu F$ or greater is required for stable operation.

V_{OUT} (**Pin 6**): V_{OUT} Pin. Tie to Pin 5 for proper load regulation.

 $\textbf{V}_{\textbf{IN}}$ (**Pin 8**): Power Supply. Bypass $V_{\textbf{IN}}$ with a 0.1µF, or larger, capacitor to GND.

(TSOT)

GND (Pin 1): Internal Function. This pin must be tied to ground, near Pin 2.

GND (Pin 2): Primary Device Ground.

DNC (Pin 3): Do Not Connect. Keep leakage current from this pin to V_{IN} or GND to a minimum.

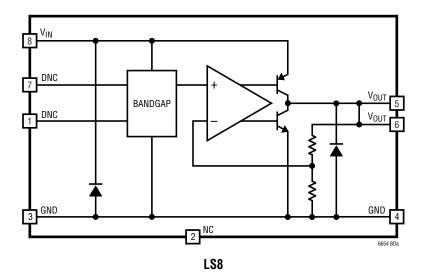
 V_{IN} (Pin 4): Power Supply. Bypass V_{IN} with a $0.1 \mu F$ capacitor to ground.

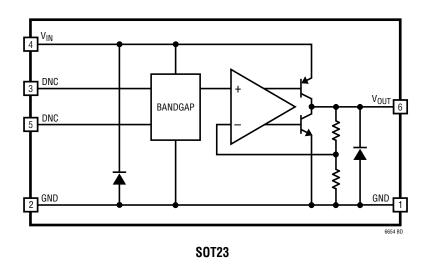
DNC (Pin 5): Do Not Connect. Keep leakage current from this pin to V_{IN} or GND to a minimum.

 V_{OUT} (Pin 6): Output Voltage. An output capacitor of $1\mu F$ minimum is required for stable operation.

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BLOCK DIAGRAMS





Bypass and Load Capacitors

The LT6654 voltage references should have an input bypass capacitor of 0.1 μ F or larger, however the bypassing on other components nearby is sufficient. In high voltage applications, $V_{IN} > 30V$, an output short-circuit to ground can create an input voltage transient that could exceed the maximum input voltage rating. To prevent this worst-case condition, an RC input line filter of 10 μ s (i.e. 10 μ c and 1 μ F) is recommended. These references also require an output capacitor for stability. The optimum output capacitance for most applications is 1 μ F, although larger values work as well. This capacitor affects the turn-on and settling time for the output to reach its final value.

Figure 1 shows the turn-on time for the LT6654-2.5 with a 0.1 μ F input bypass and 1 μ F load capacitor. Figure 2 shows the output response to a 0.5V transient on V_{IN} with the same capacitors.

The test circuit of Figure 3 is used to measure the stability with various load currents. With $R_L = 1k$, the 1V step produces a current step of 1mA. Figure 4 shows the response to a ± 0.5 mA load. Figure 5 is the output response to a sourcing step from 4mA to 5mA, and Figure 6 is the output response of a sinking step from 4mA to 5mA.

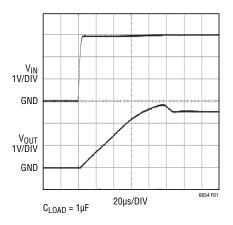


Figure 1. Turn-On Characteristics of LT6654-2.5

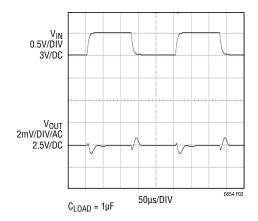


Figure 2. Output Response to 0.5V Ripple on VIN

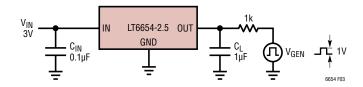


Figure 3. Load Current Response Time Test Circuit

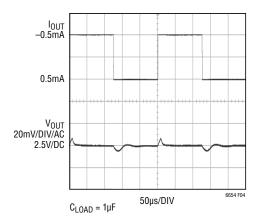


Figure 4. LT6654-2.5 Sourcing and Sinking 0.5mA

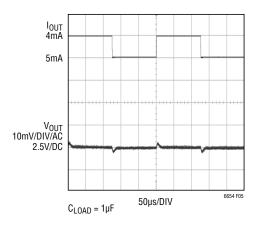


Figure 5. LT6654-2.5 Sourcing 4mA to 5mA

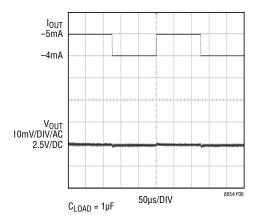


Figure 6. LT6654-2.5 Sinking 4mA to 5mA

Positive or Negative Operation

In addition to the series connection, as shown on the front page of this data sheet, the LT6654 can be operated as a negative voltage reference.

The circuit in Figure 7 shows an LT6654 configured for negative operation. In this configuration, a positive voltage is required at V_{IN} (Pin 4) to bias the LT6654 internal circuitry. This voltage must be current limited with R1 to keep the output PNP transistor from turning on and driving the grounded output. C1 provides stability during load transients. This connection maintains the same accuracy and temperature coefficient of the positive connected LT6654.

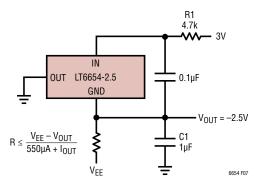
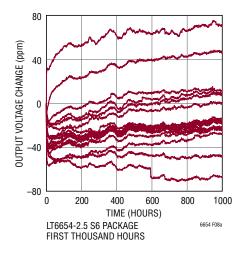


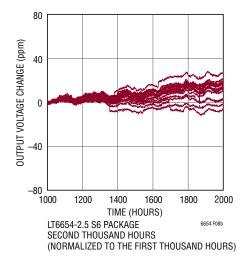
Figure 7. Using the LT6654-2.5 to Build a -2.5V Reference

Long-Term Drift

Long-term drift cannot be extrapolated from accelerated high temperature testing. This erroneous technique gives drift numbers that are wildly optimistic. The only way long-term drift can be determined is to measure it over the time interval of interest. The LT6654 drift data was taken on 40 parts that were soldered into PC boards

similar to a real world application. The boards were then placed into a constant temperature oven with $T_A = 35^{\circ}C$, their outputs scanned regularly and measured with an 8.5 digit DVM. Long-term drift curves are shown in Figure 8. Their drift is much smaller after the first thousand hours.





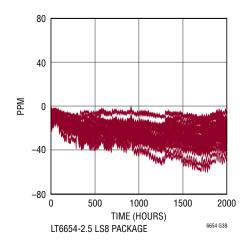


Figure 8. LT6654-2.5 Long Term Drift

Power Dissipation

The power dissipation in the LT6654 is dependent on V_{IN} , load current and the package. The LT6654 package has a thermal resistance, or θ_{JA} , of 192°C/W. A curve that illustrates allowed power dissipation versus temperature for the 6-lead SOT-23 package is shown in Figure 9. The power dissipation of the LT6654-2.5 as a function of input voltage is shown in Figure 10. The top curve shows power dissipation with a 10mA load and the bottom curve shows power dissipation with no load. When operated within its specified limits of $V_{IN} = 36V$ and sourcing 10mA, the LT6654-2.5 consumes about 335mW at room temperature. The power-derating curve in Figure 9 shows the LT6654-2.5 can only safely dissipate 130mW at 125°C, which is less than its maximum power output. Care must be taken when designing the circuit so that the maximum junction temperature is not exceeded. For best performance, junction temperature should be kept below 125°C.

The LT6654 includes output current limit circuitry, as well as thermal limit circuitry, to protect the reference from damage in the event of excessive power dissipation. The LT6654 is protected from damage by a thermal shutdown circuit. However, changes in performance may occur as a result of operation at high temperature.

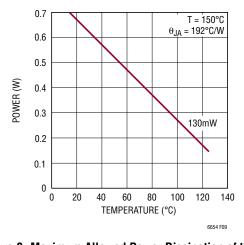


Figure 9. Maximum Allowed Power Dissipation of the LT6654

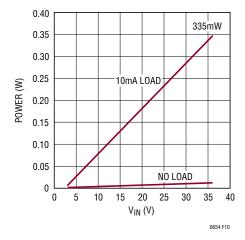
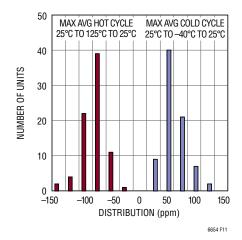
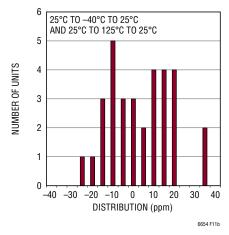


Figure 10. Typical Power Dissipation of the LT6654



(a) LT6654 S6 Thermal Hysteresis -40°C to 125°C



(b) LT6654 LS8 Thermal Hysteresis –40°C to 125°C

Figure 11.

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Hysteresis

The hysteresis data is shown in Figure 11. The LT6654 is capable of dissipating relatively high power. For example, with a 36V input voltage and 10mA load current applied to the LT6654-2.5, the power dissipation is $P_D=33.5V$ • 10mA = 335mW, which causes an increase in the die temperature of 64°C. This could increase the junction temperature above 125°C (T_{JMAX} is 150°C) and may cause the output to shift due to thermal hysteresis.

PC Board Layout

The mechanical stress of soldering a surface mount voltage reference to a PC board can cause the output voltage to shift and temperature coefficient to change. These two changes are not correlated. For example, the voltage may shift but the temperature coefficient may not.

To reduce the effects of stress-related shifts, mount the reference near the short edge of the PC board or in a corner. In addition, slots can be cut into the board on two sides of the device.

The capacitors should be mounted close to the LT6654. The GND and V_{OUT} traces should be as short as possible to minimize I • R drops, since high trace resistance directly impacts load regulation.

IR Reflow Shift

The different expansion and contraction rates of the materials that make up the LT6654 package may cause the output voltage to shift after undergoing IR reflow. Lead free solder reflow profiles reach over 250°C, considerably more than with lead based solder. A typical lead free IR reflow profile is shown in Figure 12. Similar profiles are found using a convection reflow oven. LT6654 devices run up to three times through this reflow process show that the standard deviation of the output voltage increases with a slight negative mean shift of 0.003% as shown in Figure 13. While there can be up to 0.014% of output voltage shift, the overall drift of the LT6654 after IR reflow does not vary significantly.

Humidity Sensitivity

Plastic mould compounds absorb water. With changes in relative humidity, plastic packaging materials change the amount of pressure they apply to the die inside, which can cause slight changes in the output of a voltage reference, usually on the order of 100ppm. The LS8 package is hermetic, so it is not affected by humidity, and is therefore more stable in environments where humidity may be a concern.

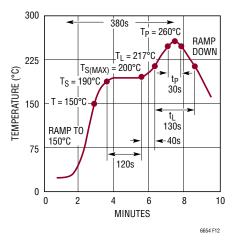


Figure 12. Lead Free Reflow Profile

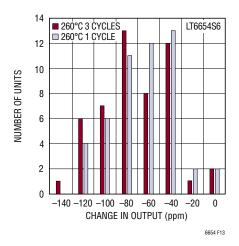
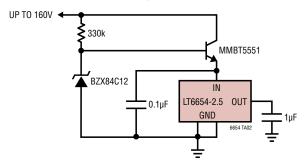


Figure 13. Output Voltage Shift Due to IR Reflow (%)

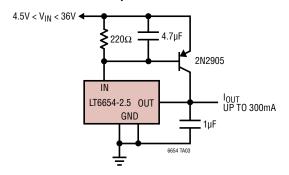
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TYPICAL APPLICATIONS

Extended Supply Range Reference

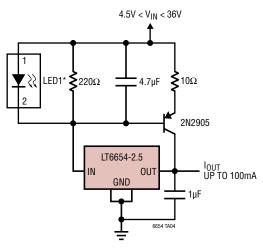


Boosted Output Current Reference



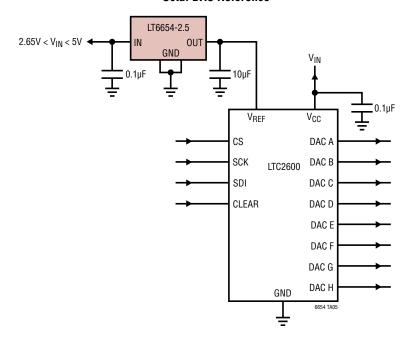
TYPICAL APPLICATIONS

Boosted Output Current with Current Limit



*LED CANNOT BE OMMITTED THE LED CLAMPS THE VOLTAGE DROP ACROSS THE 220 Ω AND LIMITS OUTPUT CURRENT

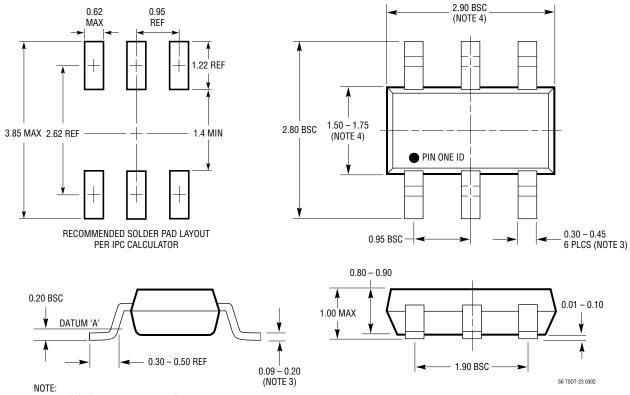
Octal DAC Reference



PACKAGE DESCRIPTION

S6 Package 6-Lead Plastic TSOT-23

(Reference LTC DWG # 05-08-1636)

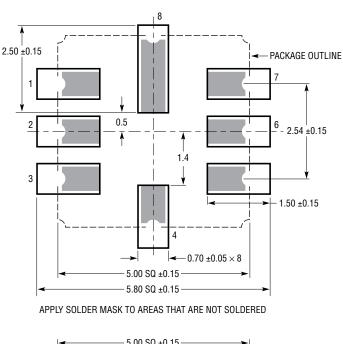


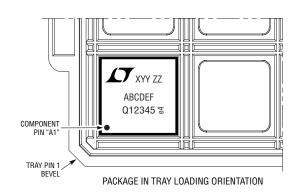
- NOTE:

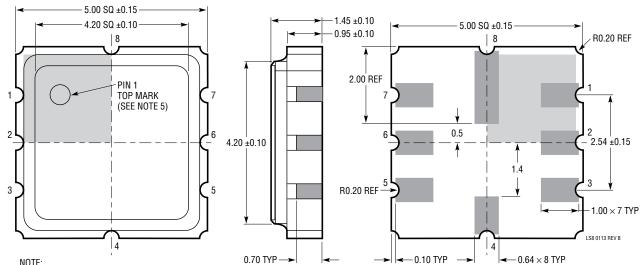
 1. DIMENSIONS ARE IN MILLIMETERS
 2. DRAWING NOT TO SCALE
 3. DIMENSIONS ARE INCLUSIVE OF PLATING
 4. DIMENSIONS ARE EXCLUSIVE OF MOLD FLASH AND METAL BURR
 5. MOLD FLASH SHALL NOT EXCEED 0.254mm
 6. JEDEC PACKAGE REFERENCE IS MO-193

PACKAGE DESCRIPTION

(Reference LTC DWG # 05-08-1852 Rev B)







- 1. ALL DIMENSIONS ARE IN MILLIMETERS
 2. DRAWING NOT TO SCALE
- 2. DIMWING NOT TO SAEL

 3. DIMENSIONS PACKAGE DO NOT INCLUDE PLATING BURRS
 PLATING BURRS, IF PRESENT, SHALL NOT EXCEED 0.30mm ON ANY SIDE

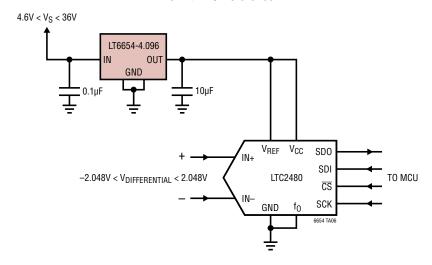
 4. PLATING—ELECTO NICKEL MIN 1.25UM, ELECTRO GOLD MIN 0.30UM
- 5. SHADED AREA IS ONLY A REFERENCE FOR PIN 1 LOCATION ON THE TOP AND BOTTOM OF PACKAGE

REVISION HISTORY

REV	DATE	DESCRIPTION	PAGE NUMBER
Α	12/10	Added voltage options (1.250V, 2.048V, 3.000V, 4.096V, 5.000V) reflected throughout the data sheet.	1-18
В	3/11	Revised conditions for Output Voltage Noise in the Electrical Characteristics section.	4
С	8/12	Addition of LS8 Features and Order Information.	1, 2, 4
		Update to Electrical Characteristics to Include LS8 Package.	6
		Addition of Long Term Drift and Hysteresis Plots for LS8 Package.	9, 15, 16
		Addition of Humidity Sensitivity Information.	17
		Addition of LS8 Package Description.	20
		Addition of Related Parts.	22
D	2/14	Schematics updated to refer to pin functions instead of pin numbers.	1, 13, 14, 18
		Label of Pin 2 on LS8 package changed to NC.	2, 11, 12
		The pin descriptions of Pin 2, Pin 3 and Pin 4 on LS8 package changed.	11
		GND label added on all schematic references of LT6654.	18, 22
Е	6/15	SOT-23 removed from data sheet title.	1
		Order Information updated to include 2.048V, 4.096V and 5V option in LS8 package.	3, 4
F	12/15	Part marking correction for 4.096V options in TSOT-23 package.	3
		Web link to Package Description updated.	19, 20
G	03/17	Added 2.5V option in I-temp grade.	2-5
Н	05/17	Added 1.25V, 2.048V, 3V, 3.3V, 4.096V and 5V Option in I-temp grade.	2-5
	05/20	Added Automotive Grades for all voltage options.	1-3

TYPICAL APPLICATION

16-Bit ADC Reference



RELATED PARTS

PART NUMBER	DESCRIPTION	COMMENTS
LT1460	Micropower Series Reference	0.075% Max, 10ppm/°C Max Drift, 2.5V, 5V and 10V Versions, MSOP, PDIP, S0-8, SOT-23 and TO-92 Packages
LT1461	Micropower Precision LDO Series Reference	3ppm/°C Max Drift, 0°C to 70°C, -40°C to 85°C, -40°C to 125°C Options in SO-8
LT1790	Micropower Precision Series References	0.05% Max, 10ppm/°C Max, 60μA Supply, SOT-23 Package
LT6650	Micropower Reference with Buffer Amplifier	0.05% Max, 5.6µA Supply, SOT-23 Package
LTC6652	Precision Low Drift Low Noise Buffered Reference	0.5% Max, 5ppm/°C Max, 2.1ppm _{P-P} Noise (0.1Hz to 10Hz) 100% Tested at -40°C, 25°C and 125°C
LT6660	Tiny Micropower Series Reference	0.2% Max, 20ppm/°C Max, 20mA Output Current, 2mm × 2mm DFN
LTC6655	Precision Low Noise Reference	2ppm/°C Max, 650nV _{P-P} Noise (0.1Hz to 10Hz) 100% Tested at -40°C, 25°C and 125°C
LT6656	800nA Precision Voltage Reference	800nA, 10ppm/°C Max, 0.05% Max, SOT-23 Package