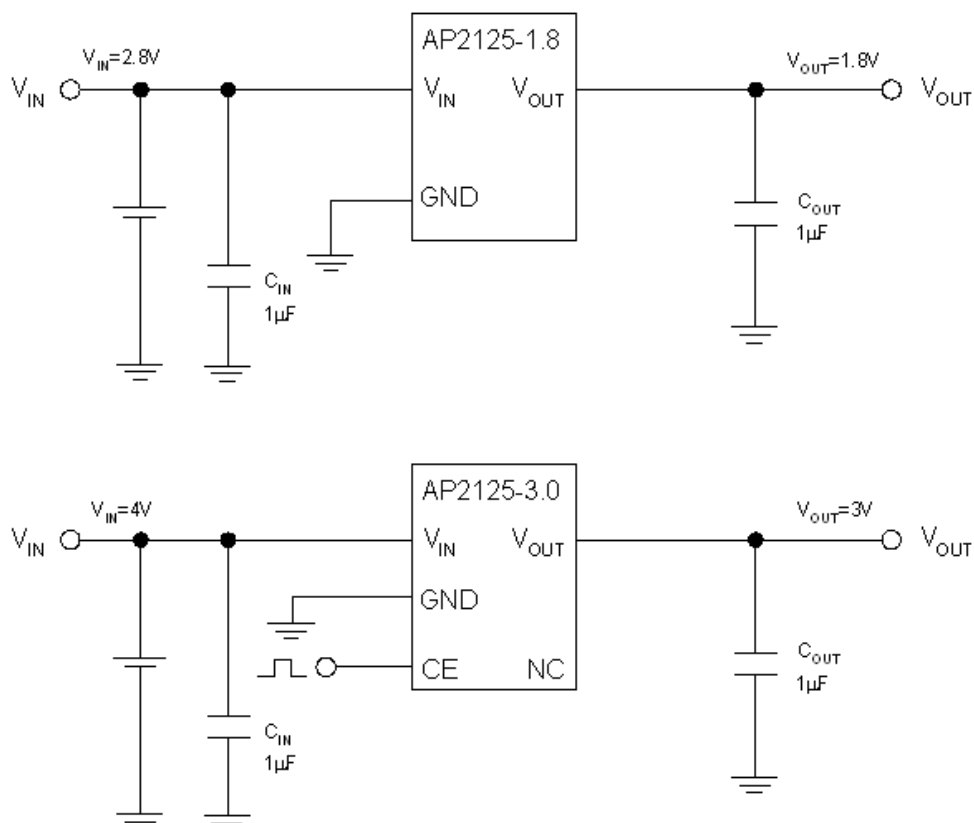


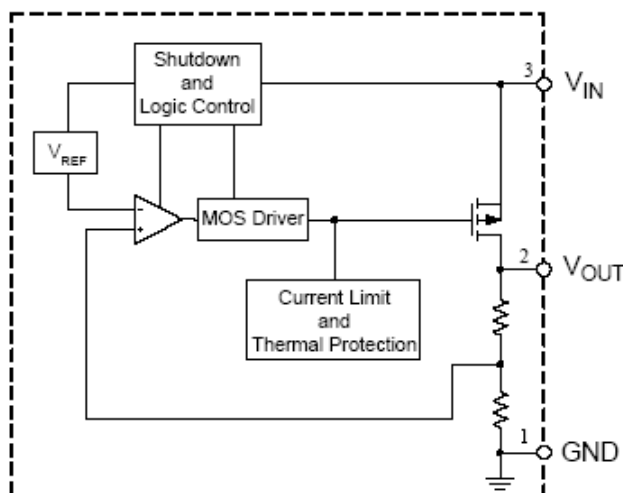
Typical Applications Circuit



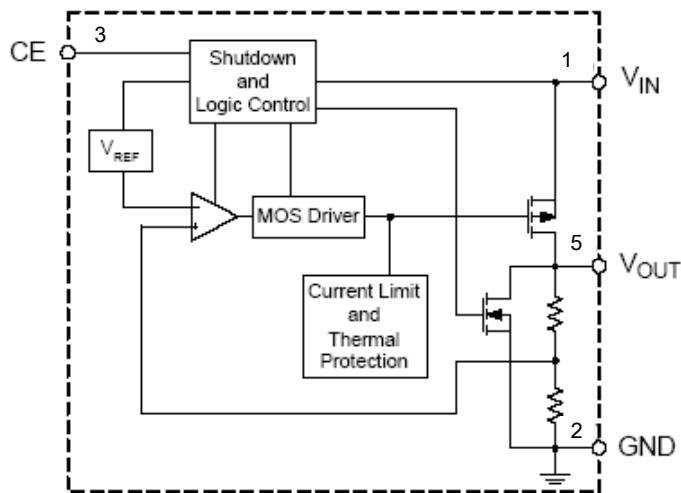
Pin Descriptions

Pin Number		Pin Name	Function
SOT-23-3	SOT-23-5/SC-70-5		
3	1	V_{IN}	Input voltage
1	2	GND	Ground
–	3	CE	Active high enable input pin. Logic high=enable, logic low = shutdown
–	4	NC	No connection
2	5	V_{OUT}	Regulated output voltage

Functional Block Diagram



SOT-23-3



SOT-23-5/SC-70-5

Absolute Maximum Ratings (Note 4)

Symbol	Parameter	Value		Unit
V_{IN}	Input Voltage	6.5		V
V_{CE}	Enable Input Voltage	-0.3 to $V_{IN} + 0.3$		V
I_{OUT}	Output Current	450		mA
T_J	Junction Temperature	+150		°C
T_{STG}	Storage Temperature Range	-65 to +150		°C
T_{LEAD}	Lead Temperature (Soldering, 10sec)	+260		°C
θ_{JA}	Thermal Resistance	SOT-23-3	200	°C/W
		SOT-23-5	200	
		SC-70-5	300	
ESD	ESD (Human Body Model)	6000		V
ESD	ESD (Machine Model)	400		V

Note 4: Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "Recommended Operating Conditions" is not implied. Exposure to "Absolute Maximum Ratings" for extended periods may affect device reliability.

Recommended Operating Conditions

Symbol	Parameter	Min	Max	Unit
V_{IN}	Input Voltage	$V_{OUT} + 0.5V$	6	V
T_A	Operating Ambient Temperature Range	-40	+85	°C

Electrical Characteristics

AP2125-1.8 Electrical Characteristics (@ $V_{IN} = 2.8V$, $T_A = +25^\circ C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^\circ C \leq T_J \leq +85^\circ C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V _{OUT}	Output Voltage	V _{IN} = 2.8V 1mA ≤ I _{OUT} ≤ 30mA	1.764	1.8	1.836	V	
V _{IN}	Input Voltage	–	–	–	6	V	
I _{OUT(MAX)}	Maximum Output Current	V _{IN} -V _{OUT} = 1V, V _{OUT} = 1.76V	300	360	–	mA	
V _{RLOAD}	Load Regulation	V _{IN} = 2.8V 1mA ≤ I _{OUT} ≤ 300mA	–	6	15	mV	
V _{RLINE}	Line Regulation	2.8V ≤ V _{IN} ≤ 6V I _{OUT} = 30mA	–	1	15	mV	
V _{DROP}	Dropout Voltage	I _{OUT} = 10mA	–	10	12	mV	
		I _{OUT} = 100mA	–	100	120		
		I _{OUT} = 300mA	–	300	360		
I _Q	Quiescent Current	V _{IN} = 2.8V, I _{OUT} = 0mA	–	60	90	μA	
I _{STD}	Standby Current	V _{IN} = 2.8V V _{CE} in OFF mode	–	0.01	1.0	μA	
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, V _{IN} = 2.8V	f = 100Hz	–	70	–	dB
			f = 1KHz	–	70	–	dB
(ΔV _{OUT} /V _{OUT})/ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 30mA	–	±100	–	ppm/°C	
I _{SHORT}	Short Current Limit	V _{OUT} = 0V	–	50	–	mA	
V _{NOISE}	RMS Output Noise	10Hz ≤ f ≤ 100kHz	–	50	–	μVrms	
–	CE "High" Voltage	CE input voltage "High"	1.5	–	–	V	
–	CE "Low" Voltage	CE input voltage "Low"	–	–	0.4	V	
–	Thermal Shutdown	–	–	+160	–	°C	
–	Thermal Shutdown Hysteresis	–	–	+25	–	°C	

Electrical Characteristics (Cont.)

AP2125-2.5 Electrical Characteristics (@ $V_{IN} = 3.5V$, $T_A = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V _{OUT}	Output Voltage	V _{IN} = 3.5V 1mA ≤ I _{OUT} ≤ 30mA	2.45	2.5	2.55	V	
V _{IN}	Input Voltage	–	–	–	6	V	
I _{OUT(MAX)}	Maximum Output Current	V _{IN} -V _{OUT} = 1V, V _{OUT} = 2.45V	300	360	–	mA	
V _{RLOAD}	Load Regulation	V _{IN} = 3.5V 1mA ≤ I _{OUT} ≤ 300mA	–	10	15	mV	
V _{RLINE}	Line Regulation	3.5V ≤ V _{IN} ≤ 6V I _{OUT} = 30mA	–	1	15	mV	
V _{DROP}	Dropout Voltage	I _{OUT} = 10mA	–	6.5	10	mV	
		I _{OUT} = 100mA	–	65	100		
		I _{OUT} = 300mA	–	200	300		
I _Q	Quiescent Current	V _{IN} = 3.5V, I _{OUT} = 0mA	–	60	90	μA	
I _{STD}	Standby Current	V _{IN} = 3.5V V _{CE} in OFF mode	–	0.01	1.0	μA	
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, V _{IN} = 3.5V	f = 100Hz	–	65	–	dB
			f = 1KHz	–	65	–	dB
(ΔV _{OUT} /V _{OUT})/ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 30mA	–	±100	–	ppm/°C	
I _{SHORT}	Short Current Limit	V _{OUT} = 0V	–	50	–	mA	
V _{NOISE}	RMS Output Noise	10Hz ≤ f ≤ 100kHz	–	50	–	μVrms	
–	CE "High" Voltage	CE input voltage "High"	1.5	–	–	V	
–	CE "Low" Voltage	CE input voltage "Low"	–	–	0.4	V	
–	Thermal Shutdown	–	–	+160	–	°C	
–	Thermal Shutdown Hysteresis	–	–	+25	–	°C	

Electrical Characteristics (Cont.)

AP2125-2.8 Electrical Characteristics (@ $V_{IN} = 3.8V$, $T_A = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V _{OUT}	Output Voltage	V _{IN} = 3.8V 1mA ≤ I _{OUT} ≤ 30mA	2.744	2.8	2.856	V	
V _{IN}	Input Voltage	–	–	–	6	V	
I _{OUT(MAX)}	Maximum Output Current	V _{IN} -V _{OUT} = 1V, V _{OUT} = 2.74V	300	360	–	mA	
V _{RLOAD}	Load Regulation	V _{IN} = 3.8V 1mA ≤ I _{OUT} ≤ 300mA	–	11	15	mV	
V _{RLINE}	Line Regulation	3.8V ≤ V _{IN} ≤ 6V I _{OUT} = 30mA	–	1	15	mV	
V _{DROP}	Dropout Voltage	I _{OUT} = 10mA	–	6.5	10	mV	
		I _{OUT} = 100mA	–	65	100		
		I _{OUT} = 300mA	–	200	300		
I _Q	Quiescent Current	V _{IN} = 3.8V, I _{OUT} = 0mA	–	60	90	μA	
I _{STD}	Standby Current	V _{IN} = 3.8V V _{CE} in OFF mode	–	0.01	1.0	μA	
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, V _{IN} = 3.8V	f = 100Hz	–	65	–	dB
			f = 1KHz	–	65	–	dB
(ΔV _{OUT} /V _{OUT})/ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 30mA	–	±100	–	ppm/°C	
I _{SHORT}	Short Current Limit	V _{OUT} = 0V	–	50	–	mA	
V _{NOISE}	RMS Output Noise	10Hz ≤ f ≤ 100kHz	–	50	–	μVrms	
–	CE "High" Voltage	CE input voltage "High"	1.5	–	–	V	
–	CE "Low" Voltage	CE input voltage "Low"	–	–	0.4	V	
–	Thermal Shutdown	–	–	+160	–	°C	
–	Thermal Shutdown Hysteresis	–	–	+25	–	°C	

Electrical Characteristics (Cont.)

AP2125-3.0 Electrical Characteristics (@ $V_{IN} = 4.0V$, $T_A = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
V _{OUT}	Output Voltage	V _{IN} = 4.0V 1mA ≤ I _{OUT} ≤ 30mA		2.94	3.0	3.06	V
V _{IN}	Input Voltage	–		–	–	6	V
I _{OUT(MAX)}	Maximum Output Current	V _{IN} -V _{OUT} = 1V, V _{OUT} = 2.94V		300	360	–	mA
V _{RLOAD}	Load Regulation	V _{IN} = 4.0V 1mA ≤ I _{OUT} ≤ 300mA		–	12	15	mV
V _{RLINE}	Line Regulation	4.0V ≤ V _{IN} ≤ 6V I _{OUT} = 30mA		–	1	15	mV
V _{DROP}	Dropout Voltage	I _{OUT} = 10mA		–	6.5	10	mV
		I _{OUT} = 100mA		–	65	100	
		I _{OUT} = 300mA		–	200	300	
I _Q	Quiescent Current	V _{IN} = 4.0V, I _{OUT} = 0mA		–	60	90	μA
I _{STD}	Standby Current	V _{IN} = 4.0V V _{CE} in OFF mode		–	0.01	1.0	μA
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, V _{IN} = 4.0V	f = 100Hz	–	65	–	dB
			f = 1KHz	–	65	–	dB
(ΔV _{OUT} /V _{OUT})/ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 30mA		–	±100	–	ppm/°C
I _{SHORT}	Short Current Limit	V _{OUT} = 0V		–	50	–	mA
V _{NOISE}	RMS Output Noise	10Hz ≤ f ≤ 100kHz		–	50	–	μVrms
–	CE "High" Voltage	CE input voltage "High"		1.5	–	–	V
–	CE "Low" Voltage	CE input voltage "Low"		–	–	0.4	V
–	Thermal Shutdown	–		–	+160	–	°C
–	Thermal Shutdown Hysteresis	–		–	+25	–	°C

Electrical Characteristics (Cont.)

AP2125-3.3 Electrical Characteristics (@ $V_{IN} = 4.3V$, $T_A = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V _{OUT}	Output Voltage	V _{IN} = 4.3V 1mA ≤ I _{OUT} ≤ 30mA	3.234	3.3	3.366	V	
V _{IN}	Input Voltage	–	–	–	6	V	
I _{OUT(MAX)}	Maximum Output Current	V _{IN} -V _{OUT} = 1V, V _{OUT} = 3.23V	300	360	–	mA	
V _{RLOAD}	Load Regulation	V _{IN} = 4.3V 1mA ≤ I _{OUT} ≤ 300mA	–	13	15	mV	
V _{RLINE}	Line Regulation	4.3V ≤ V _{IN} ≤ 6V I _{OUT} = 30mA	–	1	15	mV	
V _{DROP}	Dropout Voltage	I _{OUT} = 10mA	–	6.5	10	mV	
		I _{OUT} = 100mA	–	65	100		
		I _{OUT} = 300mA	–	200	300		
I _Q	Quiescent Current	V _{IN} = 4.3V, I _{OUT} = 0mA	–	60	90	μA	
I _{STD}	Standby Current	V _{IN} = 4.3V V _{CE} in OFF mode	–	0.01	1.0	μA	
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, V _{IN} = 4.3V	f = 100Hz	–	65	–	dB
			f = 1KHz	–	65	–	dB
(ΔV _{OUT} /V _{OUT})/ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 30mA	–	±100	–	ppm/°C	
I _{SHORT}	Short Current Limit	V _{OUT} = 0V	–	50	–	mA	
V _{NOISE}	RMS Output Noise	10Hz ≤ f ≤ 100kHz	–	50	–	μVrms	
–	CE "High" Voltage	CE input voltage "High"	1.5	–	–	V	
–	CE "Low" Voltage	CE input voltage "Low"	–	–	0.4	V	
–	Thermal Shutdown	–	–	+160	–	°C	
–	Thermal Shutdown Hysteresis	–	–	+25	–	°C	

Electrical Characteristics (Cont.)

AP2125-4.15 Electrical Characteristics (@ $V_{IN} = 5.15V$, $T_A = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V _{OUT}	Output Voltage	V _{IN} = 5.15V 1mA ≤ I _{OUT} ≤ 30mA	4.067	4.15	4.233	V	
V _{IN}	Input Voltage	–	–	–	6	V	
I _{OUT(MAX)}	Maximum Output Current	V _{IN} -V _{OUT} = 1V, V _{OUT} = 4.06V	300	360	–	mA	
V _{RLOAD}	Load Regulation	V _{IN} = 5.15V 1mA ≤ I _{OUT} ≤ 300mA	–	13	15	mV	
V _{RLINE}	Line Regulation	5.15V ≤ V _{IN} ≤ 6V I _{OUT} = 30mA	–	1	15	mV	
V _{DROP}	Dropout Voltage	I _{OUT} = 10mA	–	6.5	10	mV	
		I _{OUT} = 100mA	–	65	100		
		I _{OUT} = 300mA	–	200	300		
I _Q	Quiescent Current	V _{IN} = 5.15V, I _{OUT} = 0mA	–	60	90	μA	
I _{STD}	Standby Current	V _{IN} = 5.15V V _{CE} in OFF mode	–	0.01	1.0	μA	
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, V _{IN} = 5.15V	f = 100Hz	–	65	–	dB
			f = 1KHz	–	65	–	dB
(ΔV _{OUT} /V _{OUT})/ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 30mA	–	±100	–	ppm/°C	
I _{SHORT}	Short Current Limit	V _{OUT} = 0V	–	50	–	mA	
V _{NOISE}	RMS Output Noise	10Hz ≤ f ≤ 100kHz	–	50	–	μVrms	
–	CE "High" Voltage	CE input voltage "High"	1.5	–	–	V	
–	CE "Low" Voltage	CE input voltage "Low"	–	–	0.4	V	
–	Thermal Shutdown	–	–	+160	–	°C	
–	Thermal Shutdown Hysteresis	–	–	+25	–	°C	

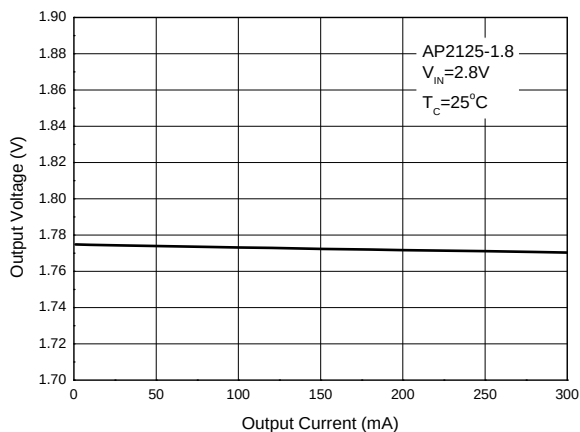
Electrical Characteristics (Cont.)

AP2125-4.2 Electrical Characteristics (@ $V_{IN} = 5.2V$, $T_A = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

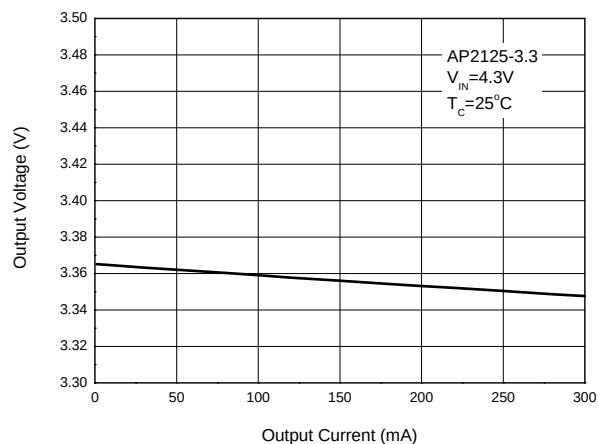
Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V _{OUT}	Output Voltage	V _{IN} = 5.2V 1mA ≤ I _{OUT} ≤ 30mA	4.116	4.2	4.284	V	
V _{IN}	Input Voltage	–	–	–	6	V	
I _{OUT(MAX)}	Maximum Output Current	V _{IN} -V _{OUT} = 1V, V _{OUT} = 4.12V	300	360	–	mA	
V _{RLOAD}	Load Regulation	V _{IN} = 5.2V 1mA ≤ I _{OUT} ≤ 300mA	–	13	15	mV	
V _{RLINE}	Line Regulation	5.2V ≤ V _{IN} ≤ 6V I _{OUT} = 30mA	–	1	15	mV	
V _{DROP}	Dropout Voltage	I _{OUT} = 10mA	–	6.5	10	mV	
		I _{OUT} = 100mA	–	65	100		
		I _{OUT} = 300mA	–	200	300		
I _Q	Quiescent Current	V _{IN} = 5.2V, I _{OUT} = 0mA	–	60	90	μA	
I _{STD}	Standby Current	V _{IN} = 5.2V V _{CE} in OFF mode	–	0.01	1.0	μA	
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, V _{IN} = 5.2V	f = 100Hz	–	65	–	dB
			f = 1KHz	–	65	–	dB
(ΔV _{OUT} /V _{OUT})/ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 30mA	–	±100	–	ppm/°C	
I _{SHORT}	Short Current Limit	V _{OUT} = 0V	–	50	–	mA	
V _{NOISE}	RMS Output Noise	10Hz ≤ f ≤ 100kHz	–	50	–	μVrms	
–	CE "High" Voltage	CE input voltage "High"	1.5	–	–	V	
–	CE "Low" Voltage	CE input voltage "Low"	–	–	0.4	V	
–	Thermal Shutdown	–	–	+160	–	°C	
–	Thermal Shutdown Hysteresis	–	–	+25	–	°C	

Performance Characteristics

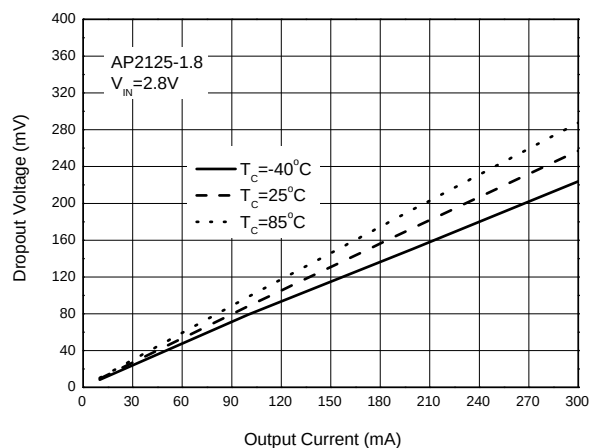
Output Voltage vs. Output Current



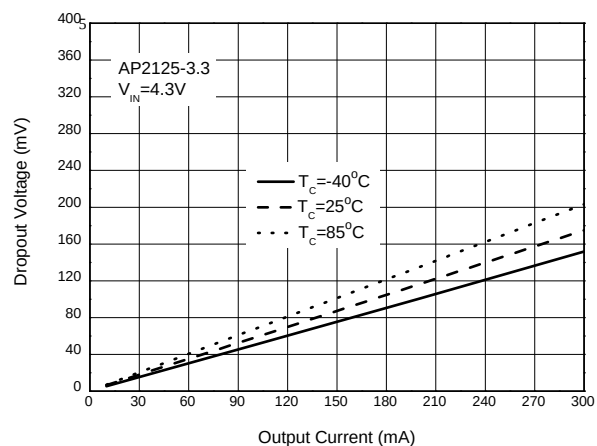
Output Voltage vs. Output Current



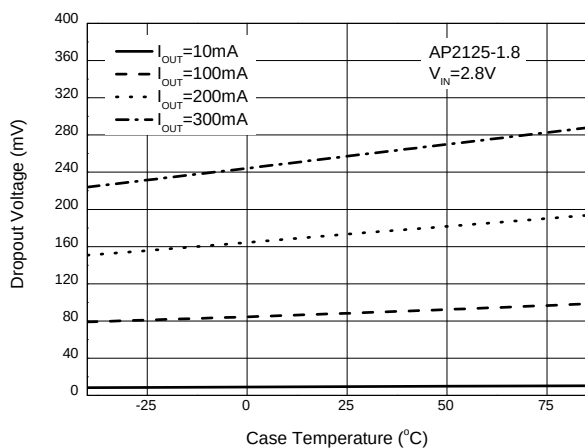
Dropout Voltage vs. Output Current



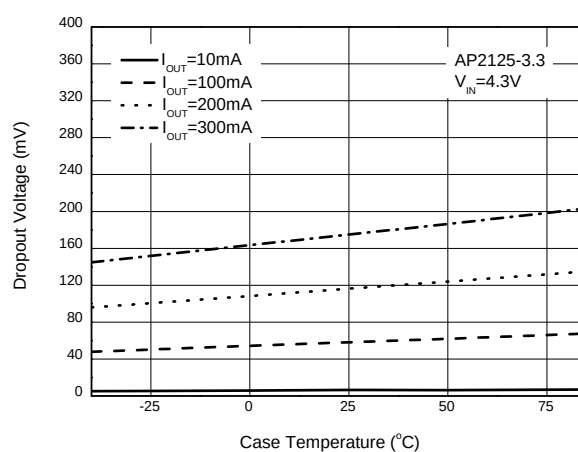
Dropout Voltage vs. Output Current



Dropout Voltage vs. Case Temperature

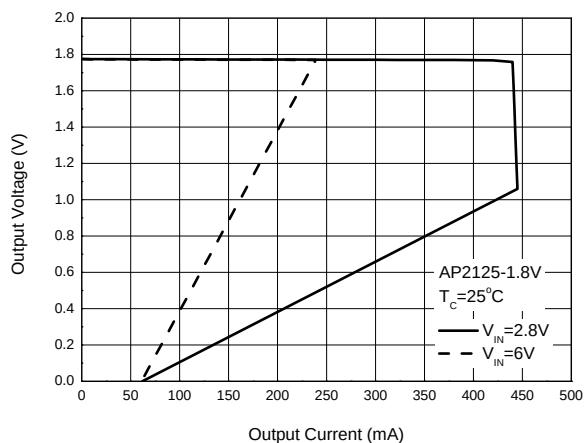


Dropout Voltage vs. Case Temperature

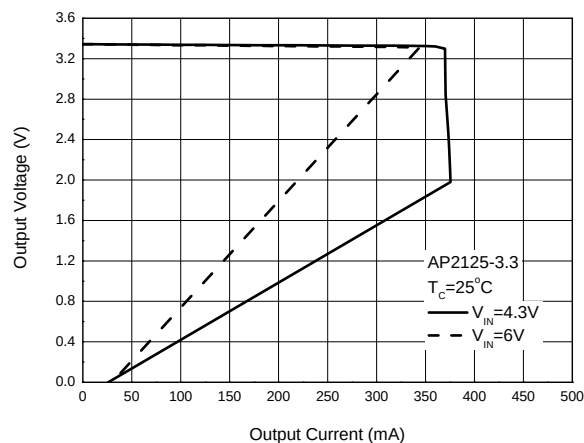


Performance Characteristics (Cont.)

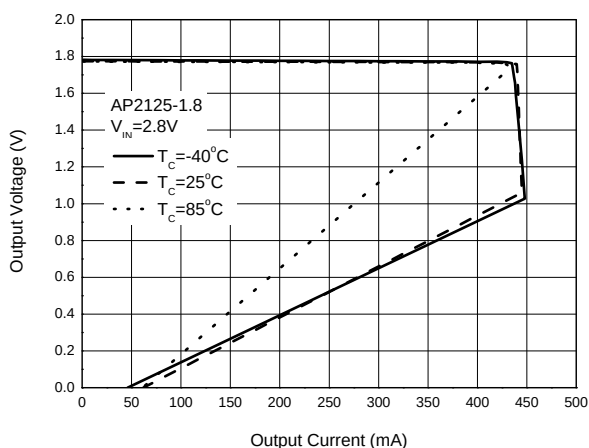
Current Limit



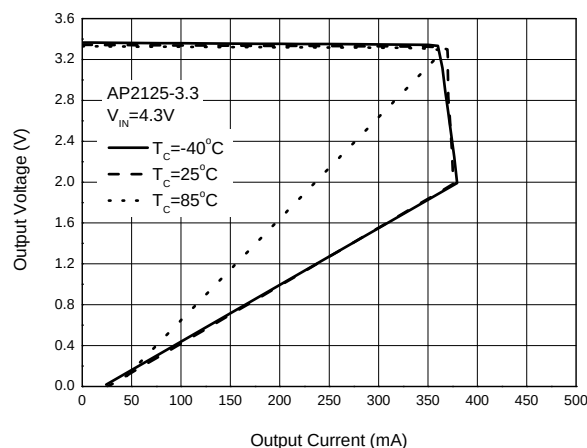
Current Limit



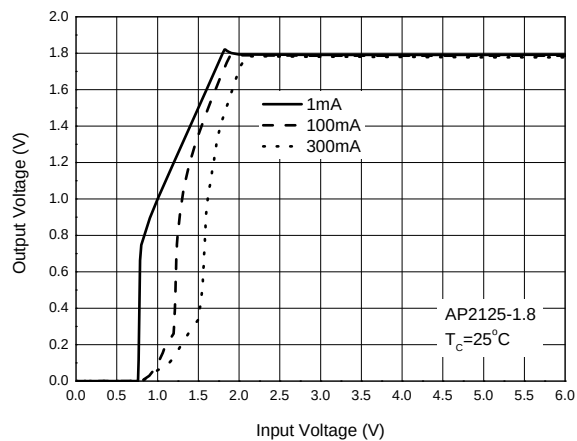
Current Limit



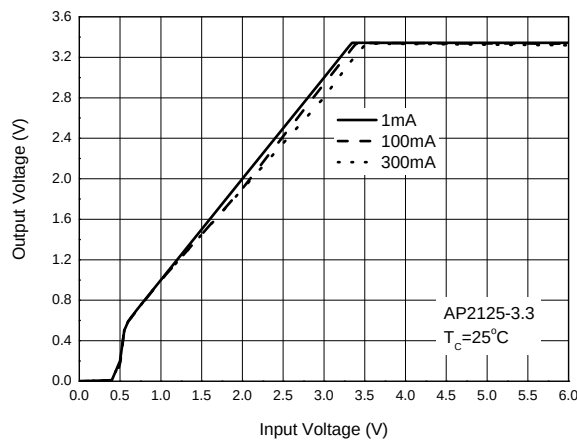
Current Limit



Output Voltage vs. Input Voltage

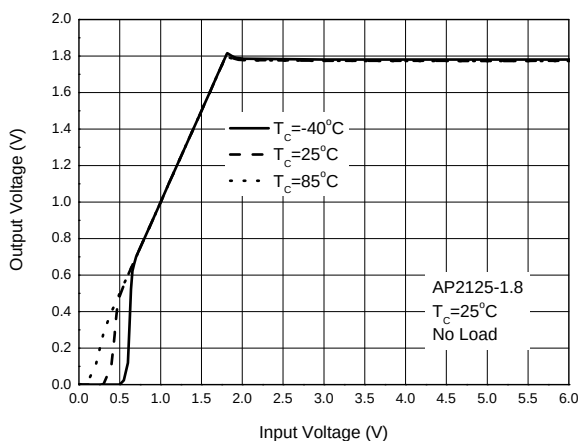


Output Voltage vs. Input Voltage

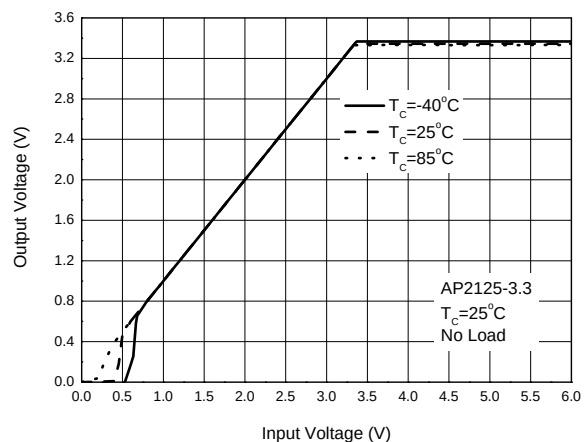


Performance Characteristics (Cont.)

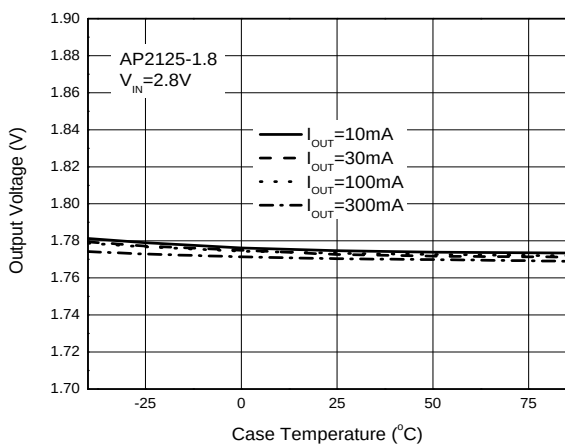
Output Voltage vs. Input Voltage



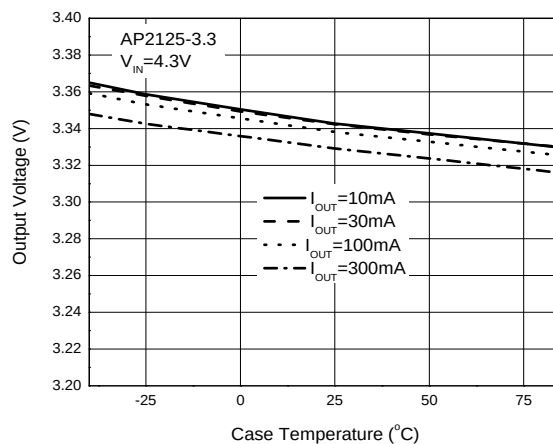
Output Voltage vs. Input Voltage



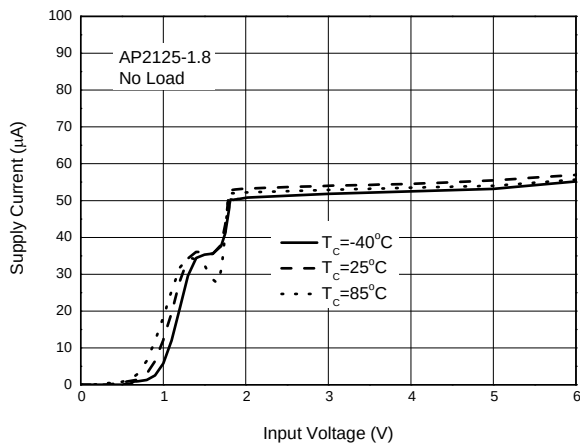
Output Voltage vs. Case Temperature



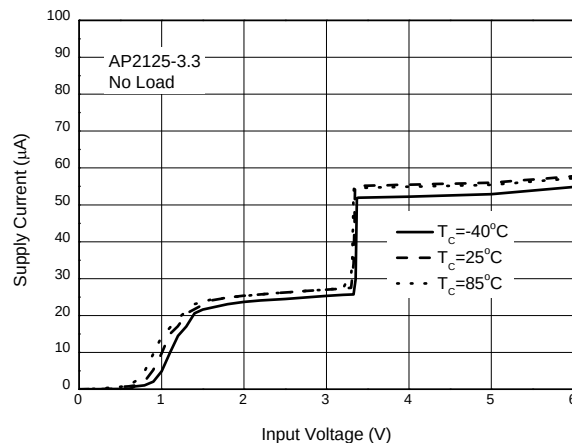
Output Voltage vs. Case Temperature



Supply Current vs. Input Voltage

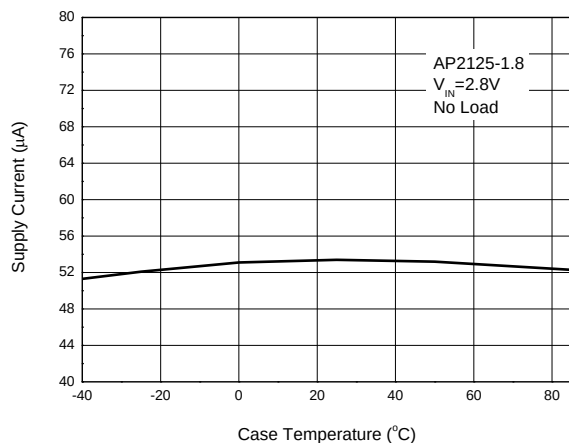


Supply Current vs. Input Voltage

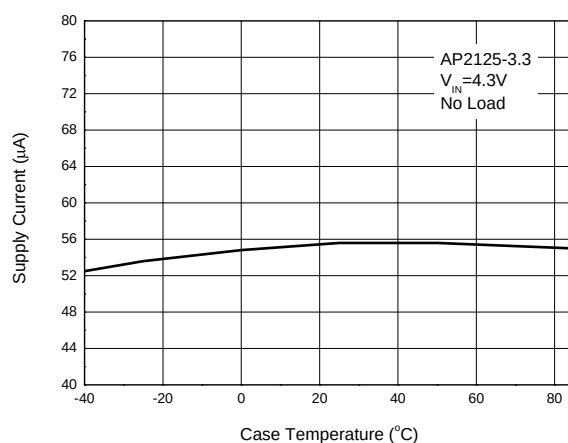


Performance Characteristics (Cont.)

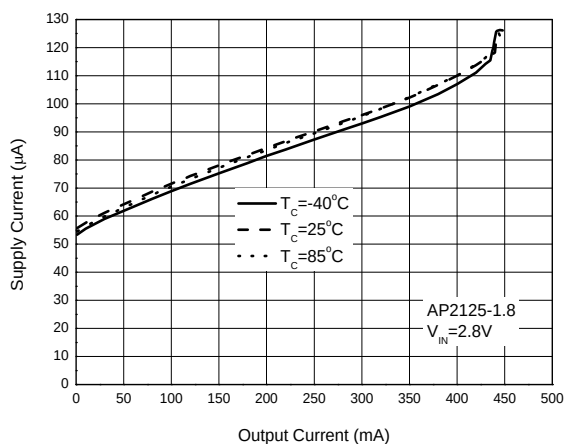
Supply Current vs. Case Temperature



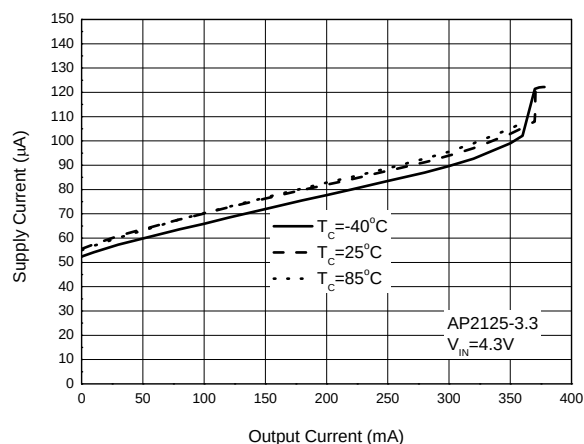
Supply Current vs. Case Temperature



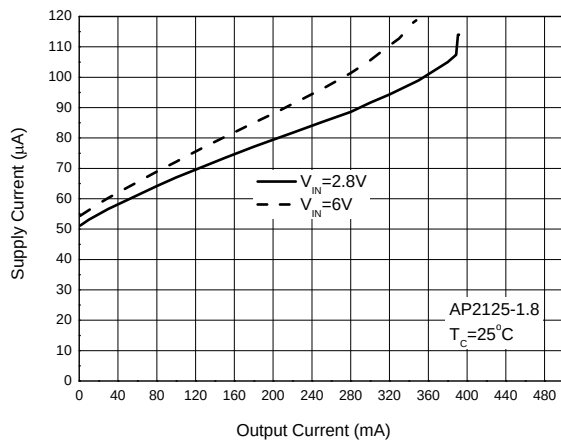
Supply Current vs. Output Current



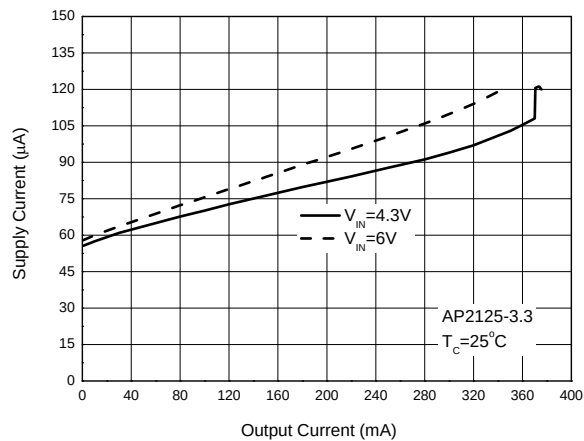
Supply Current vs. Output Current



Supply Current vs. Output Current



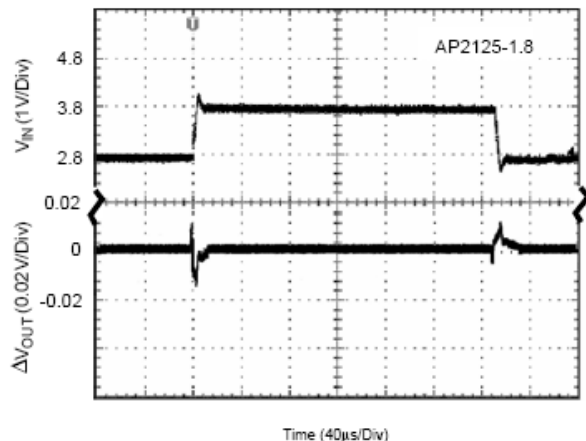
Supply Current vs. Output Current



Performance Characteristics (Cont.)

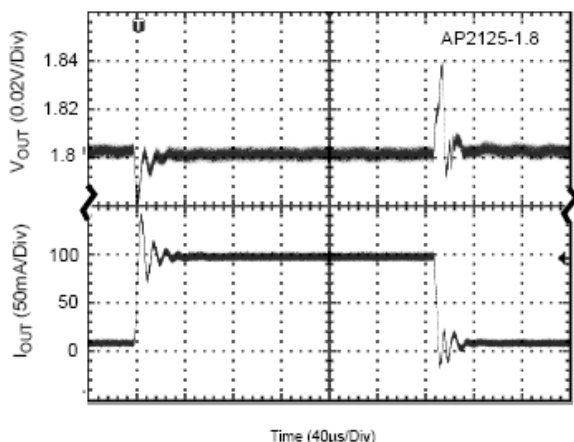
Line Transient

(Conditions: $I_{OUT} = 30\text{mA}$, $C_{OUT} = 1\mu\text{F}$, $V_{IN} = 2.8\text{V to } 3.8\text{V}$)



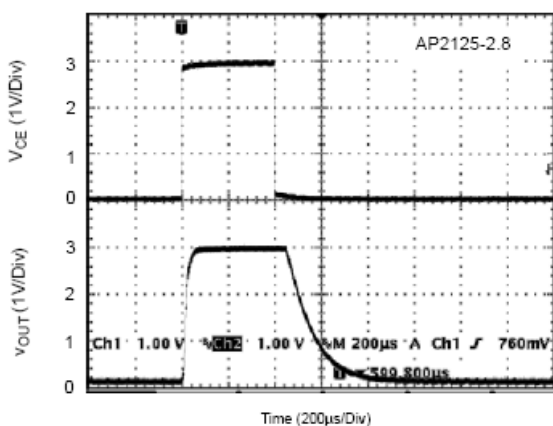
Load Transient

(Conditions: $I_{OUT} = 10 \text{ to } 100\text{mA}$, $C_{IN} = 1\mu\text{F}$, $C_{OUT} = 1\mu\text{F}$, $V_{IN} = 2.8\text{V}$)



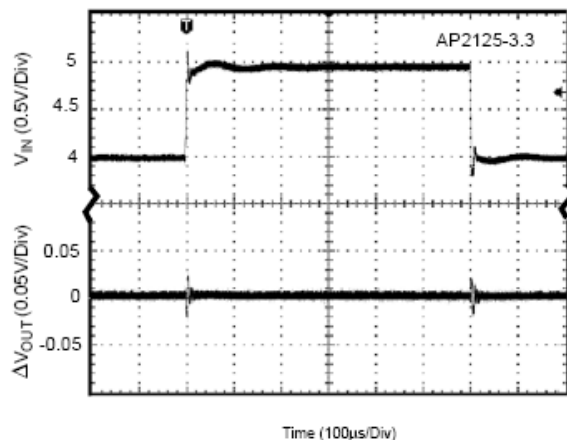
Enable Input Response and Auto-discharge

(Conditions: $V_{CE} = 0 \text{ to } 3\text{V}$, $C_{IN} = 1\mu\text{F}$, $C_{OUT} = 1\mu\text{F}$, $V_{IN} = 3\text{V}$, no Load)



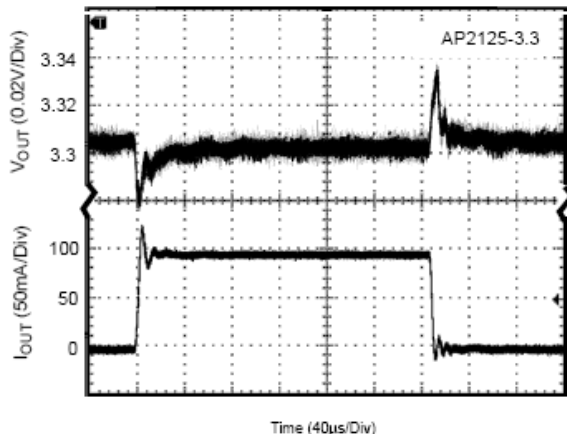
Line Transient

(Conditions: $I_{OUT} = 30\text{mA}$, $C_{OUT} = 1\mu\text{F}$, $V_{IN} = 4\text{V to } 5\text{V}$)

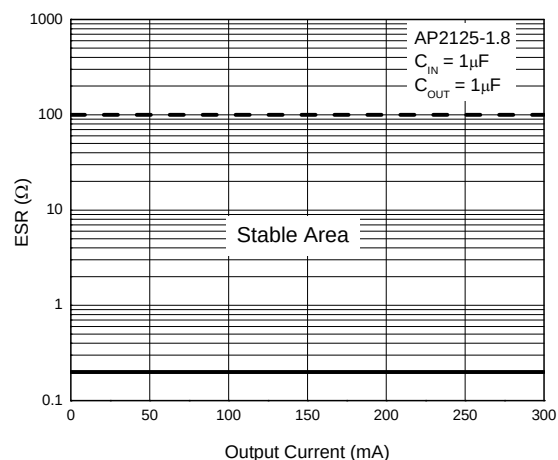


Load Transient

(Conditions: $I_{OUT} = 10 \text{ to } 100\text{mA}$, $C_{IN} = 1\mu\text{F}$, $C_{OUT} = 1\mu\text{F}$, $V_{IN} = 4.3\text{V}$)

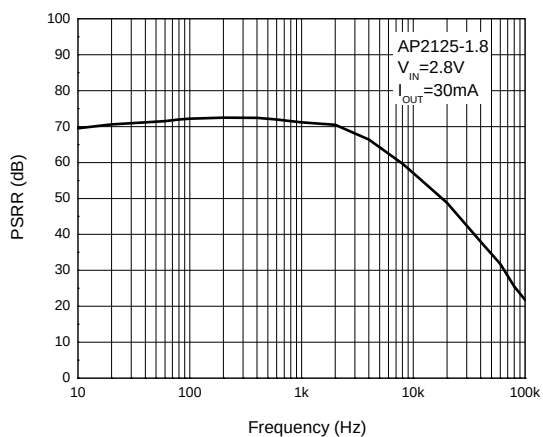


ESR vs. Output Current

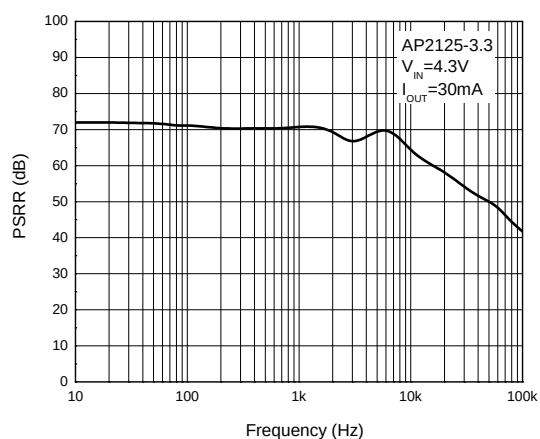


Performance Characteristics (Cont.)

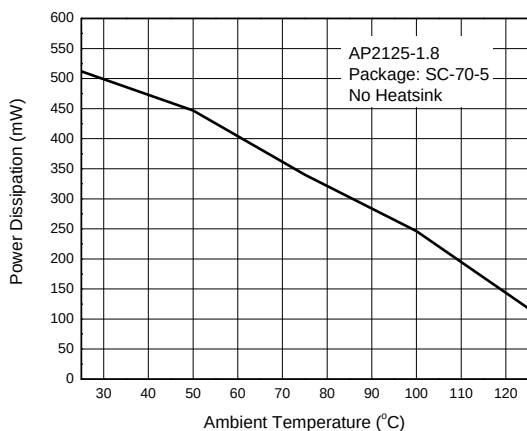
PSRR



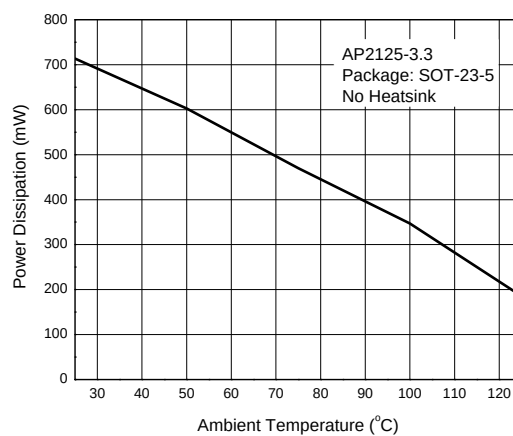
PSRR



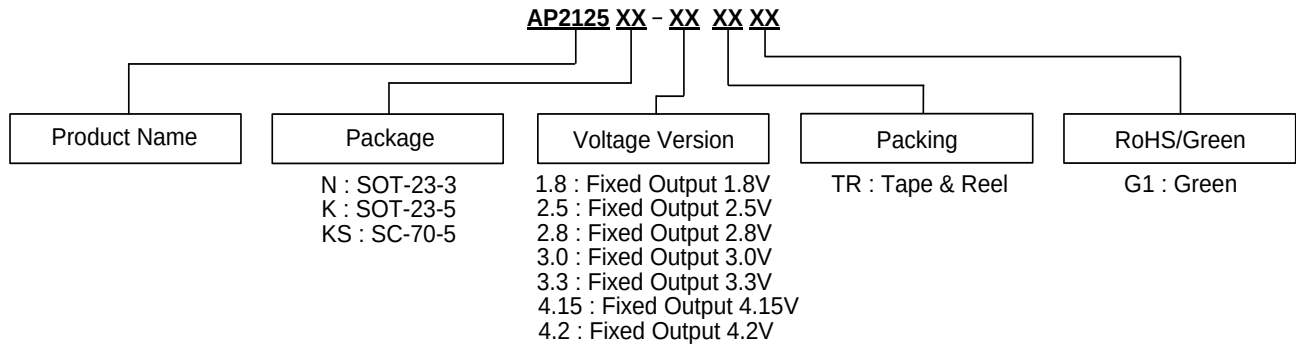
Power Dissipation vs. Ambient Temperature



Power Dissipation vs. Ambient Temperature



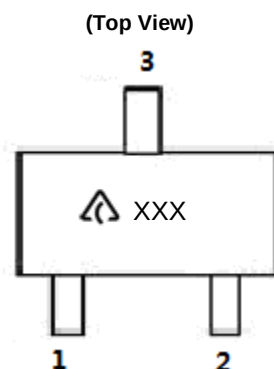
Ordering Information



Package	Temperature Range	Part Number	Marking ID	Packing
SOT-23-3	-40 to +85°C	AP2125N-1.8TRG1	GJ2	3000/Tape & Reel
		AP2125N-2.5TRG1	GJ4	3000/Tape & Reel
		AP2125N-2.8TRG1	GJ5	3000/Tape & Reel
		AP2125N-3.0TRG1	GJ6	3000/Tape & Reel
		AP2125N-3.3TRG1	GJ7	3000/Tape & Reel
		AP2125N-4.2TRG1	GJ3	3000/Tape & Reel
SOT-23-5	-40 to +85°C	AP2125K-1.8TRG1	GCB	3000/Tape & Reel
		AP2125K-2.5TRG1	GCD	3000/Tape & Reel
		AP2125K-2.8TRG1	GCE	3000/Tape & Reel
		AP2125K-3.0TRG1	GCF	3000/Tape & Reel
		AP2125K-3.3TRG1	GCG	3000/Tape & Reel
		AP2125K-4.15TRG1	GCJ	3000/Tape & Reel
		AP2125K-4.2TRG1	GCC	3000/Tape & Reel
SC-70-5	-40 to +85°C	AP2125KS-1.8TRG1	B6	3000/Tape & Reel
		AP2125KS-2.5TRG1	C5	3000/Tape & Reel
		AP2125KS-2.8TRG1	B7	3000/Tape & Reel
		AP2125KS-3.0TRG1	C6	3000/Tape & Reel
		AP2125KS-3.3TRG1	B8	3000/Tape & Reel
		AP2125KS-4.2TRG1	C4	3000/Tape & Reel

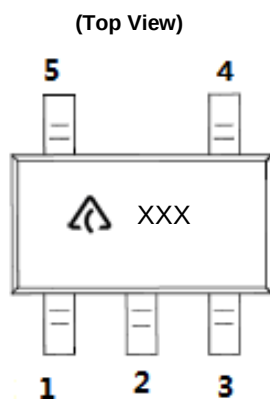
Marking Information

(1) SOT-23-3



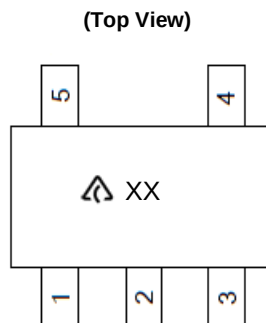
 : Logo
 XXX: Marking ID
 (See Ordering Information)

(2) SOT-23-5



 : Logo
 XXX: Marking ID
 (See Ordering Information)

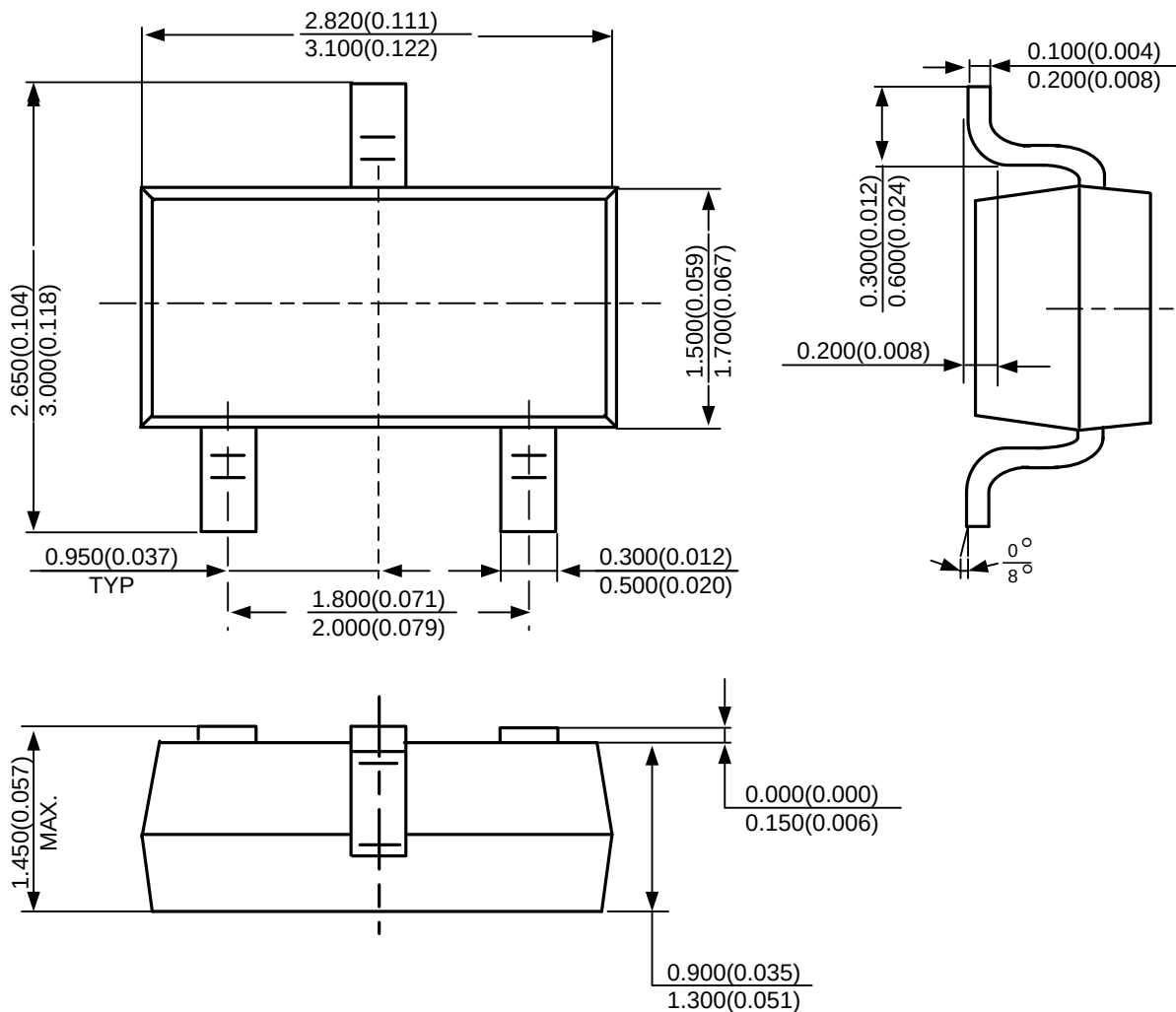
(3) SC-70-5



 : Logo
 XX: Marking ID
 (See Ordering Information)

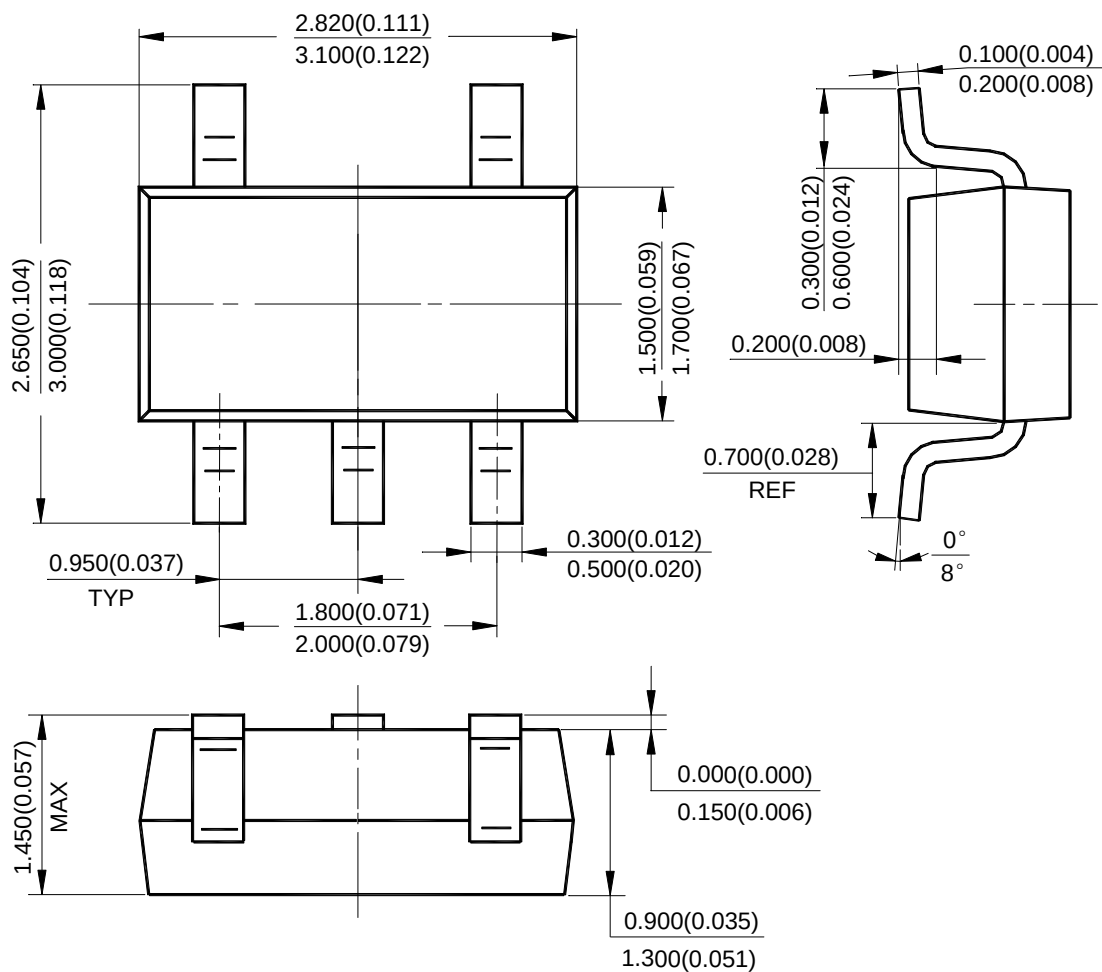
Package Outline Dimensions (All dimensions in mm(inch).)

(1) Package Type: SOT-23-3



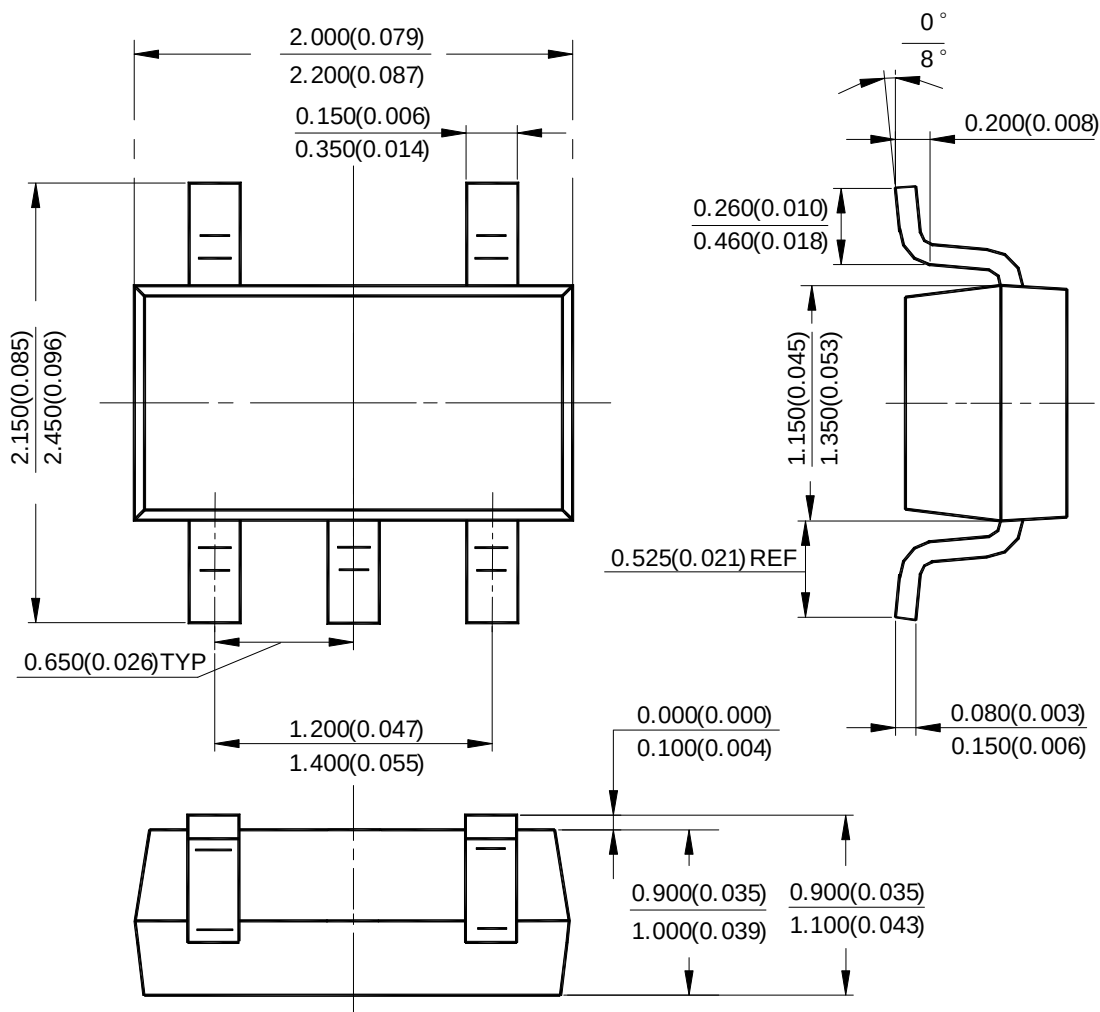
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(2) Package Type: SOT-23-5



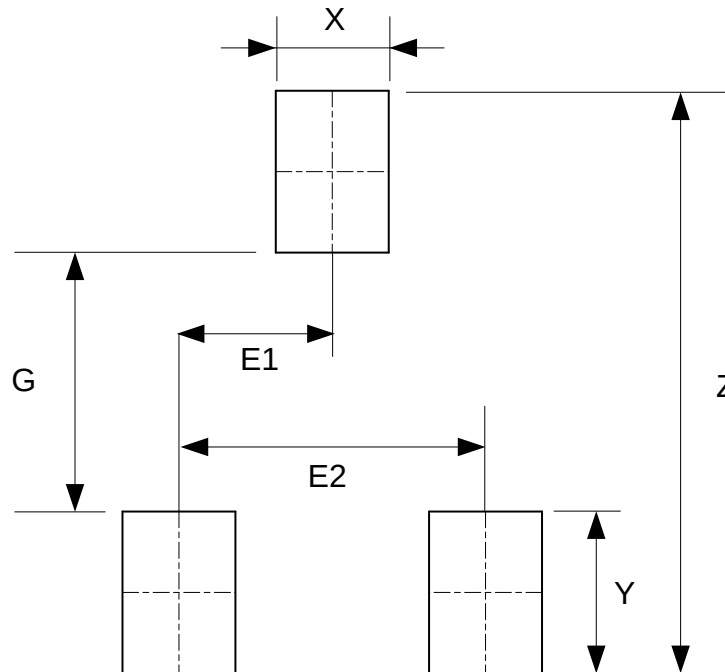
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(3) Package Type: SC-70-5



Suggested Pad Layout

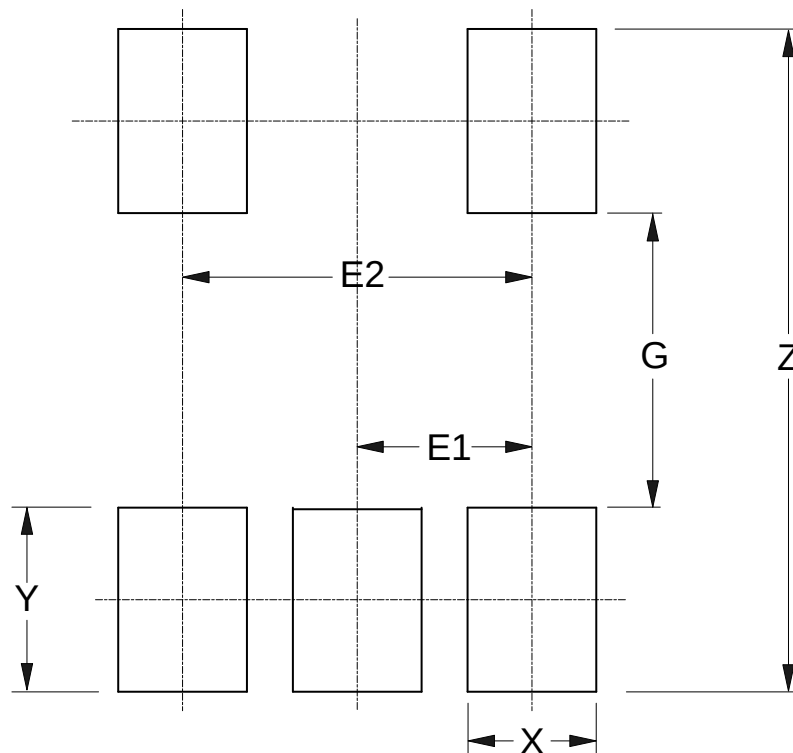
(1) Package Type: SOT-23-3



Dimensions	Z (mm)/(inch)	G (mm)/(inch)	X (mm)/(inch)	Y (mm)/(inch)	E1 (mm)/(inch)	E2 (mm)/(inch)
Value	3.600/0.142	1.600/0.063	0.700/0.028	1.000/0.039	0.950/0.037	1.900/0.075

Suggested Pad Layout (Cont.)

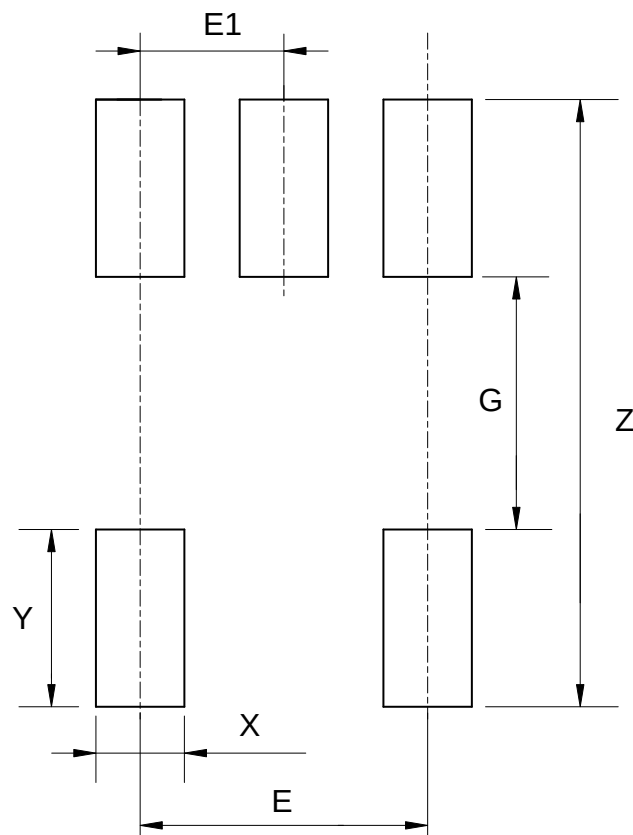
(2) Package Type: SOT-23-5



Dimensions	Z (mm)/(inch)	G (mm)/(inch)	X (mm)/(inch)	Y (mm)/(inch)	E1 (mm)/(inch)	E2 (mm)/(inch)
Value	3.600/0.142	1.600/0.063	0.700/0.028	1.000/0.039	0.950/0.037	1.900/0.075

Suggested Pad Layout (Cont.)

(3) Package Type: SC-70-5



Dimensions	Z (mm)/(inch)	G (mm)/(inch)	X (mm)/(inch)	Y (mm)/(inch)	E (mm)/(inch)	E1 (mm)/(inch)
Value	2.740/0.108	1.140/0.045	0.400/0.016	0.800/0.031	1.300/0.051	0.650/0.026

IMPORTANT NOTICE

DIODES INCORPORATED MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARDS TO THIS DOCUMENT, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION).

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein. Diodes Incorporated does not assume any liability arising out of the application or use of this document or any product described herein; neither does Diodes Incorporated convey any license under its patent or trademark rights, nor the rights of others. Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on Diodes Incorporated website, harmless against all damages.

Diodes Incorporated does not warrant or accept any liability whatsoever in respect of any products purchased through unauthorized sales channel. Should Customers purchase or use Diodes Incorporated products for any unintended or unauthorized application, Customers shall indemnify and hold Diodes Incorporated and its representatives harmless against all claims, damages, expenses, and attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized application.

Products described herein may be covered by one or more United States, international or foreign patents pending. Product names and markings noted herein may also be covered by one or more United States, international or foreign trademarks.

This document is written in English but may be translated into multiple languages for reference. Only the English version of this document is the final and determinative format released by Diodes Incorporated.

LIFE SUPPORT

Diodes Incorporated products are specifically not authorized for use as critical components in life support devices or systems without the express written approval of the Chief Executive Officer of Diodes Incorporated. As used herein:

A. Life support devices or systems are devices or systems which:

1. are intended to implant into the body, or
2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.

B. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or to affect its safety or effectiveness.

Customers represent that they have all necessary expertise in the safety and regulatory ramifications of their life support devices or systems, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of Diodes Incorporated products in such safety-critical, life support devices or systems, notwithstanding any devices- or systems-related information or support that may be provided by Diodes Incorporated. Further, Customers must fully indemnify Diodes Incorporated and its representatives against any damages arising out of the use of Diodes Incorporated products in such safety-critical, life support devices or systems.

Copyright © 2016, Diodes Incorporated

www.diodes.com