



Pin Configuration

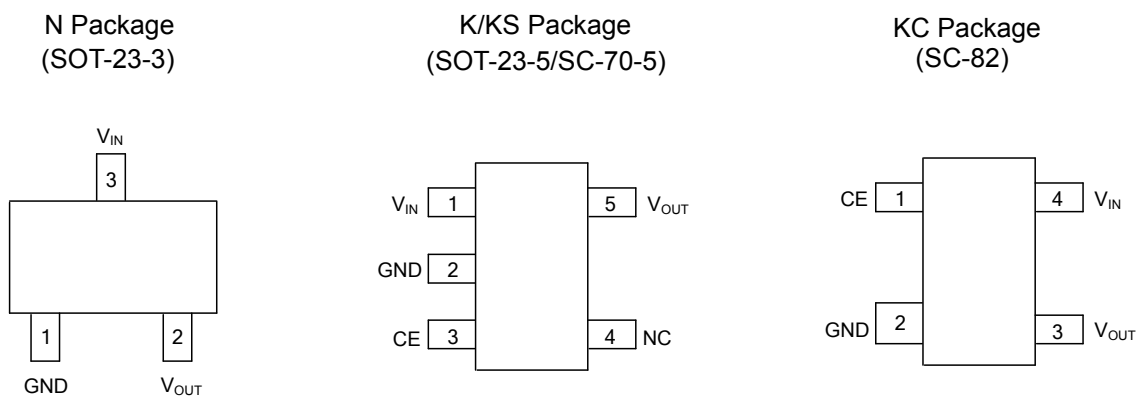
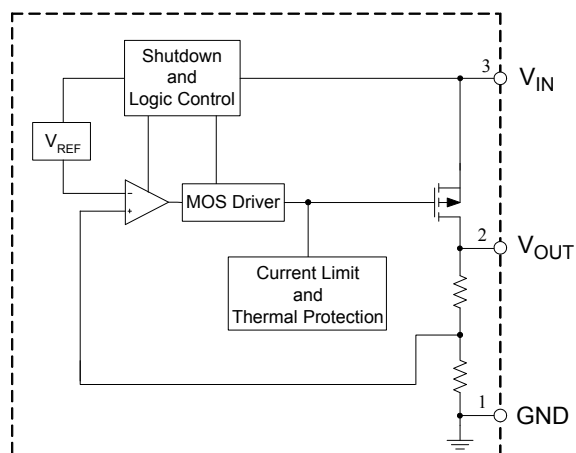


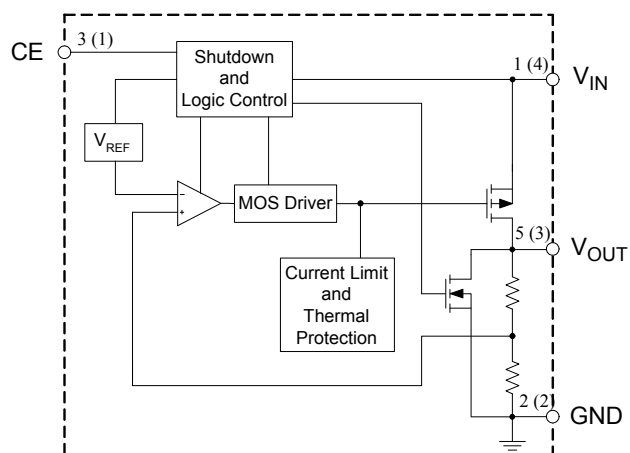
Figure 2. Pin Configuration of AP2125 (Top View)

Pin Description

Pin Number			Pin Name	Function
SOT-23-3	SOT-23-5/ SC-70-5	SC-82		
3	1	4	V_{IN}	Input voltage
1	2	2	GND	Ground
	3	1	CE	Active high enable input pin. Logic high=enable, logic low=shutdown
	4		NC	No connection
2	5	3	V_{OUT}	Regulated output voltage

**Functional Block Diagram**

SOT-23-3

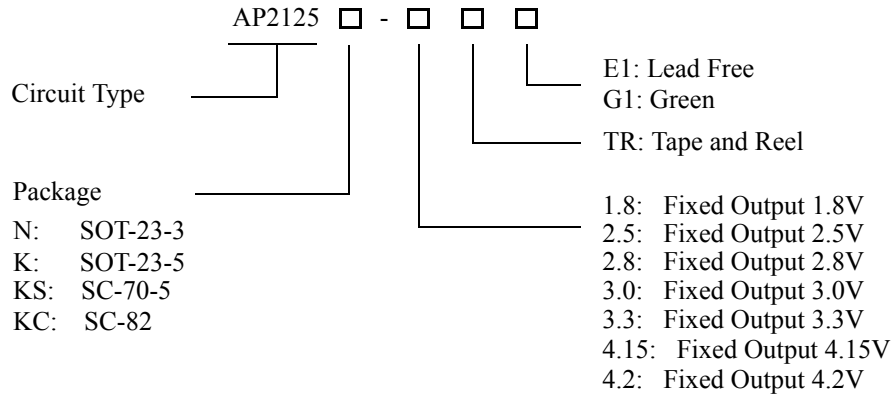


A(B)

A SOT-23-5/SC-70-5

B SC-82

Figure 3. Functional Block Diagram of AP2125

**300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR****AP2125****Ordering Information**

Package	Temperature Range	Part Number		Marking ID		Packing Type
		Lead Free	Green	Lead Free	Green	
SOT-23-3	-40 to 85°C	AP2125N-1.8TRE1	AP2125N-1.8TRG1	EJ2	GJ2	Tape & Reel
		AP2125N-2.5TRE1	AP2125N-2.5TRG1	EJ4	GJ4	Tape & Reel
		AP2125N-2.8TRE1	AP2125N-2.8TRG1	EJ5	GJ5	Tape & Reel
		AP2125N-3.0TRE1	AP2125N-3.0TRG1	EJ6	GJ6	Tape & Reel
		AP2125N-3.3TRE1	AP2125N-3.3TRG1	EJ7	GJ7	Tape & Reel
		AP2125N-4.2TRE1	AP2125N-4.2TRG1	EJ3	GJ3	Tape & Reel
SOT-23-5	-40 to 85°C	AP2125K-1.8TRE1	AP2125K-1.8TRG1	ECB	GCB	Tape & Reel
		AP2125K-2.5TRE1	AP2125K-2.5TRG1	ECD	GCD	Tape & Reel
		AP2125K-2.8TRE1	AP2125K-2.8TRG1	ECE	GCE	Tape & Reel
		AP2125K-3.0TRE1	AP2125K-3.0TRG1	ECF	GCF	Tape & Reel
		AP2125K-3.3TRE1	AP2125K-3.3TRG1	ECG	GCG	Tape & Reel
			AP2125K-4.15TRG1		GCJ	Tape & Reel
SC-70-5	-40 to 85°C	AP2125K-4.2TRE1	AP2125K-4.2TRG1	ECC	GCC	Tape & Reel
		AP2125KS-1.8TRE1	AP2125KS-1.8TRG1	26	B6	Tape & Reel
		AP2125KS-2.5TRE1	AP2125KS-2.5TRG1	35	C5	Tape & Reel
		AP2125KS-2.8TRE1	AP2125KS-2.8TRG1	27	B7	Tape & Reel
		AP2125KS-3.0TRE1	AP2125KS-3.0TRG1	36	C6	Tape & Reel
		AP2125KS-3.3TRE1	AP2125KS-3.3TRG1	28	B8	Tape & Reel
SC-82	-40 to 85°C	AP2125KS-4.2TRE1	AP2125KS-4.2TRG1	34	C4	Tape & Reel
		AP2125KC-1.8TRE1	AP2125KC-1.8TRG1	91	T1	Tape & Reel
		AP2125KC-2.5TRE1	AP2125KC-2.5TRG1	96	T6	Tape & Reel
		AP2125KC-2.8TRE1	AP2125KC-2.8TRG1	92	T2	Tape & Reel
		AP2125KC-3.0TRE1	AP2125KC-3.0TRG1	97	T7	Tape & Reel
		AP2125KC-3.3TRE1	AP2125KC-3.3TRG1	93	T3	Tape & Reel
		AP2125KC-4.2TRE1	AP2125KC-4.2TRG1	95	T5	Tape & Reel

BCD Semiconductor's Pb-free products, as designated with "E1" suffix in the part number, are RoHS compliant. Products with "G1" suffix are available in green packages.

**300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR****AP2125****Absolute Maximum Ratings (Note 1)**

Parameter	Symbol	Value		Unit
Input Voltage	V_{IN}	6.5		V
Enable Input Voltage	V_{CE}	-0.3 to $V_{IN}+0.3$		V
Output Current	I_{OUT}	450		mA
Junction Temperature	T_J	150		°C
Storage Temperature Range	T_{STG}	-65 to 150		°C
Lead Temperature (Soldering, 10sec)	T_{LEAD}	260		°C
Thermal Resistance	θ_{JA}	SOT-23-3	200	°C/W
		SOT-23-5	200	
		SC-70-5	300	
		SC-82	300	
ESD (Human Body Model)	ESD	6000		V
ESD (Machine Model)	ESD	400		V

Note 1: 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

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

**300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR****AP2125****Electrical Characteristics****AP2125-1.8 Electrical Characteristics**(V_{IN}=2.8V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

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



300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR

AP2125

Electrical Characteristics (Continued)

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.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	$V_{IN}=3.5V$ $1mA \leq I_{OUT} \leq 30mA$	2.45	2.5	2.55	V
Input Voltage	V_{IN}				6	V
Maximum Output Current	$I_{OUT(MAX)}$	$V_{IN}-V_{OUT}=1V$, $V_{OUT}=2.45V$	300	360		mA
Load Regulation	V_{RLOAD}	$V_{IN}=3.5V$ $1mA \leq I_{OUT} \leq 300mA$		10	15	mV
Line Regulation	V_{RLINE}	$3.5V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$		1	15	mV
Dropout Voltage	V_{DROP}	$I_{OUT}=10mA$		6.5	10	mV
		$I_{OUT}=100mA$		65	100	
		$I_{OUT}=300mA$		200	300	
Quiescent Current	I_Q	$V_{IN}=3.5V$, $I_{OUT}=0mA$		60	90	μA
Standby Current	I_{STD}	$V_{IN}=3.5V$ V_{CE} in OFF mode		0.01	1.0	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p $V_{IN}=3.5V$	$f=100Hz$	65		dB
			$f=1KHz$	65		dB
Output Voltage Temperature Coefficient	$(\Delta V_{OUT}/V_{OUT})/\Delta T$	$I_{OUT}=30mA$		± 100		ppm/ $^{\circ}C$
Short Current Limit	I_{SHORT}	$V_{OUT}=0V$		50		mA
RMS Output Noise	V_{NOISE}	$10Hz \leq f \leq 100kHz$		50		μV_{rms}
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.4	V
Thermal Shutdown				160		$^{\circ}C$
Thermal Shutdown Hyster-esis				25		$^{\circ}C$


300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR
AP2125
Electrical Characteristics (Continued)
AP2125-2.8 Electrical Characteristics

(V_{IN}=3.8V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

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



300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR

AP2125

Electrical Characteristics (Continued)

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.)

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

**300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR****AP2125****Electrical Characteristics (Continued)****AP2125-3.3 Electrical Characteristics**(V_{IN}=4.3V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

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


300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR
AP2125
Electrical Characteristics (Continued)
AP2125-4.15 Electrical Characteristics

(V_{IN}=5.15V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

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



300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR

AP2125

Electrical Characteristics (Continued)

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.)

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

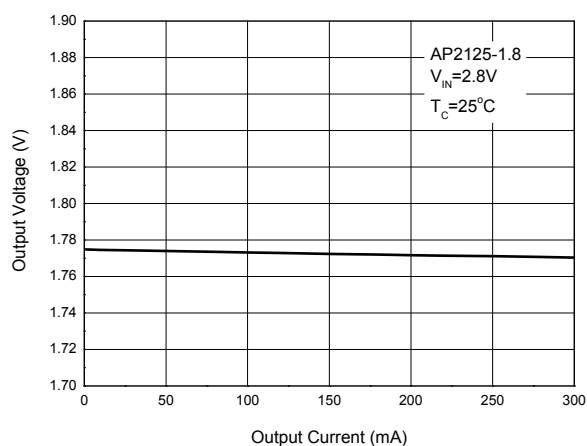
**Typical Performance Characteristics**

Figure 4. Output Voltage vs. Output Current

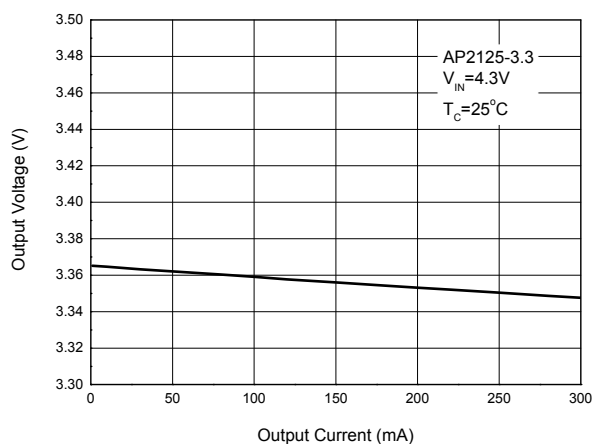


Figure 5. Output Voltage vs. Output Current

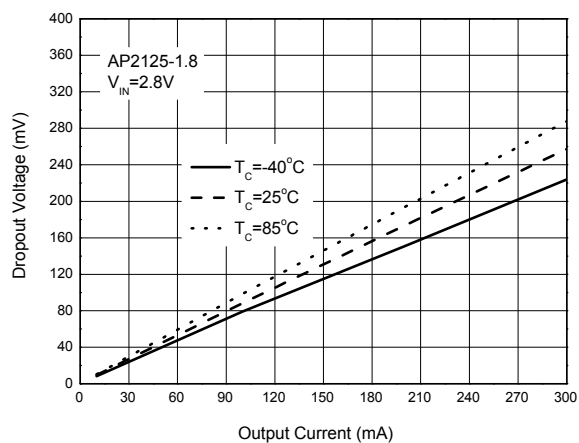


Figure 6. Dropout Voltage vs. Output Current

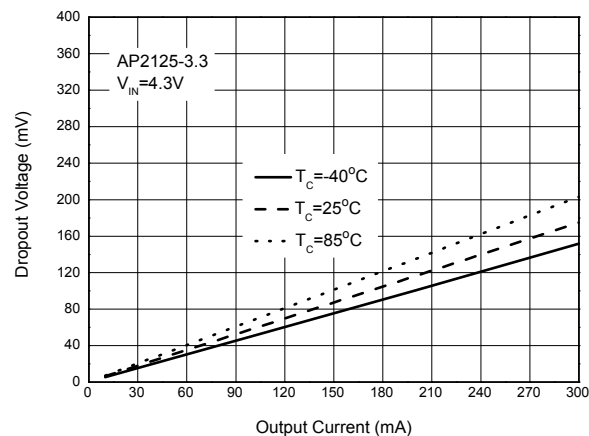


Figure 7. Dropout Voltage vs. Output Current

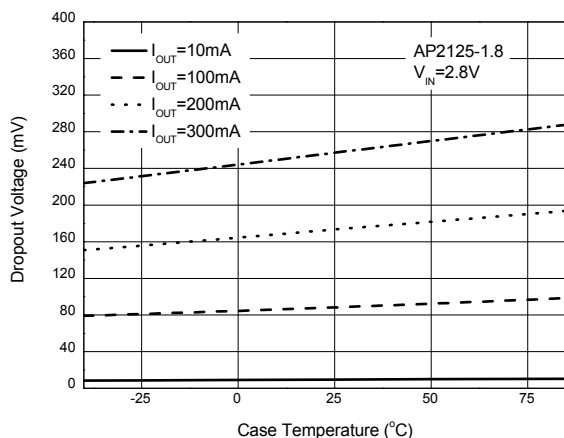
**300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR****AP2125****Typical Performance Characteristics (Continued)**

Figure 8. Dropout Voltage vs. Case Temperature

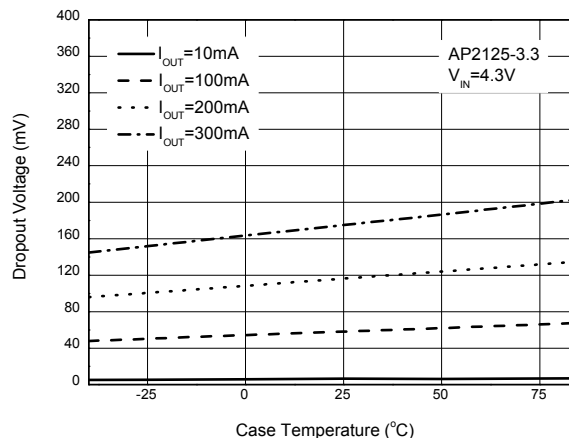


Figure 9. Dropout Voltage vs. Case Temperature

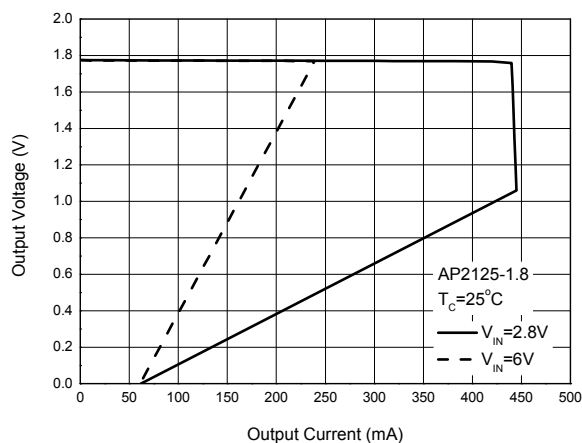


Figure 10. Current Limit

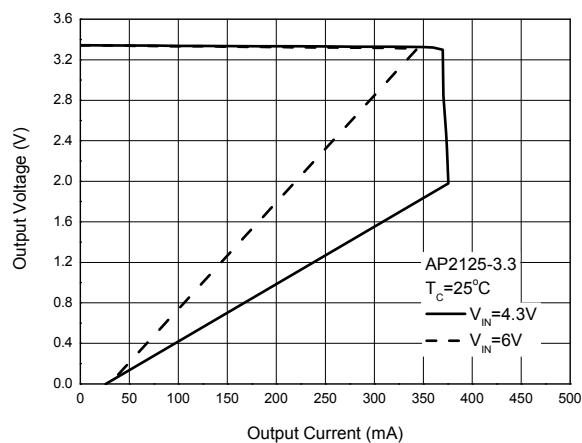


Figure 11. Current Limit

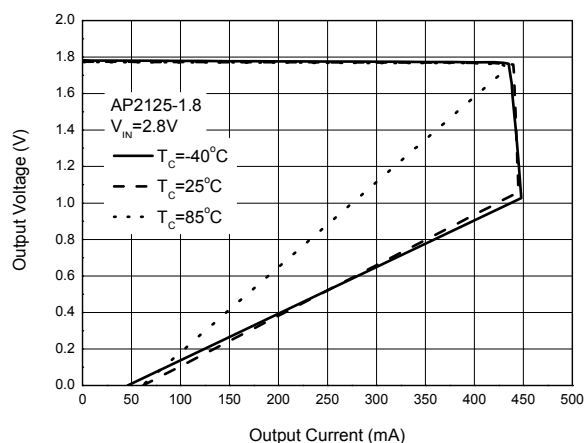
**Typical Performance Characteristics (Continued)**

Figure 12. Current Limit

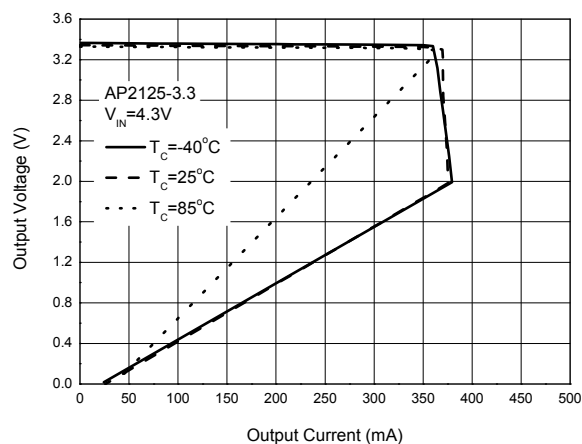


Figure 13. Current Limit

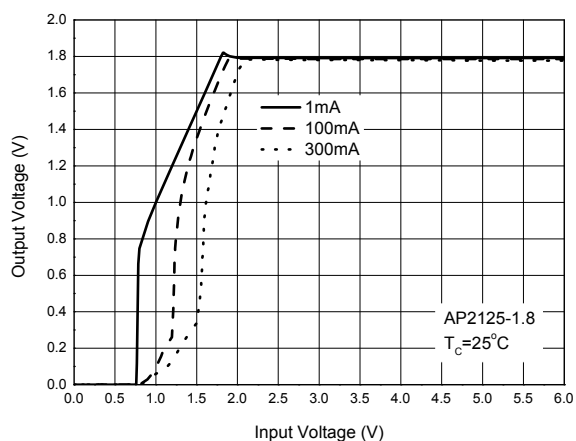


Figure 14. Output Voltage vs. Input Voltage

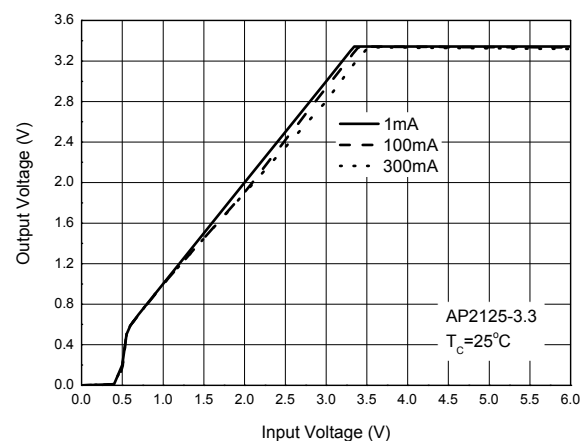


Figure 15. Output Voltage vs. Input Voltage

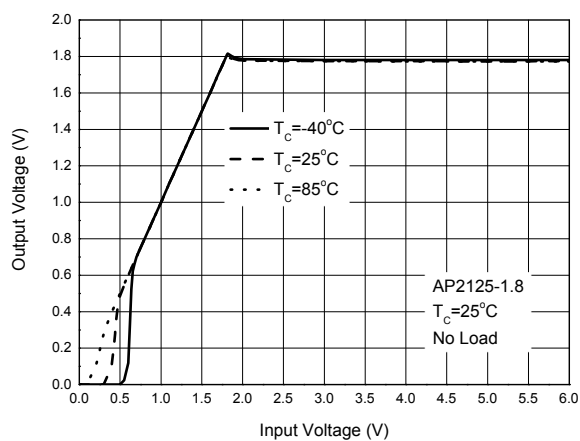
**Typical Performance Characteristics (Continued)**

Figure 16. Output Voltage vs. Input Voltage

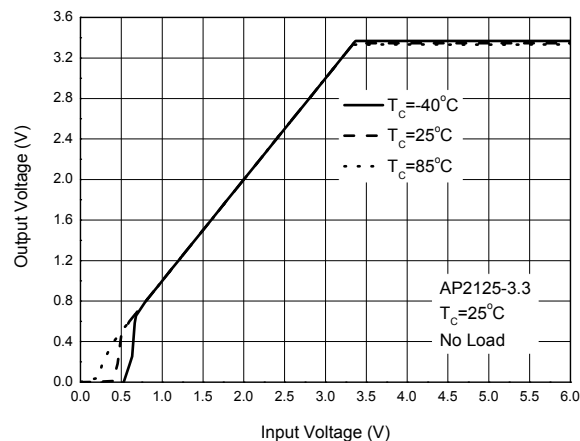


Figure 17. Output Voltage vs. Input Voltage

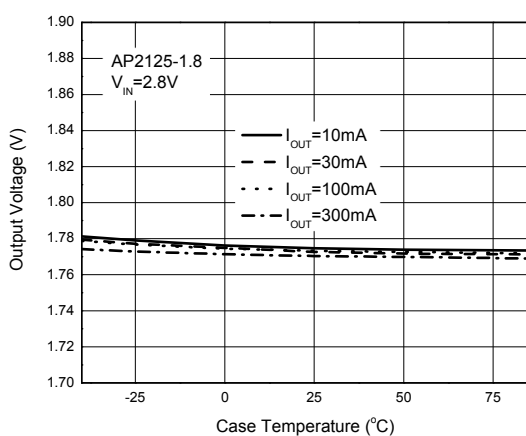


Figure 18. Output Voltage vs. Case Temperature

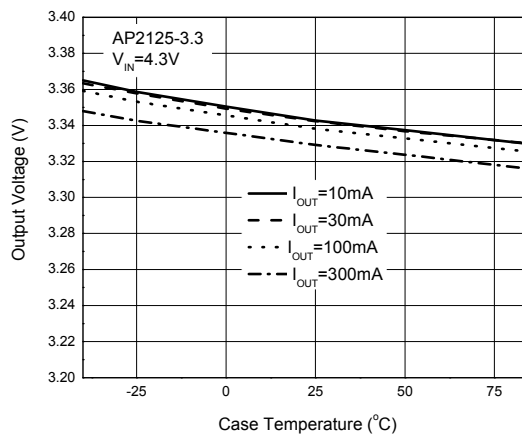


Figure 19. Output Voltage vs. Case Temperature

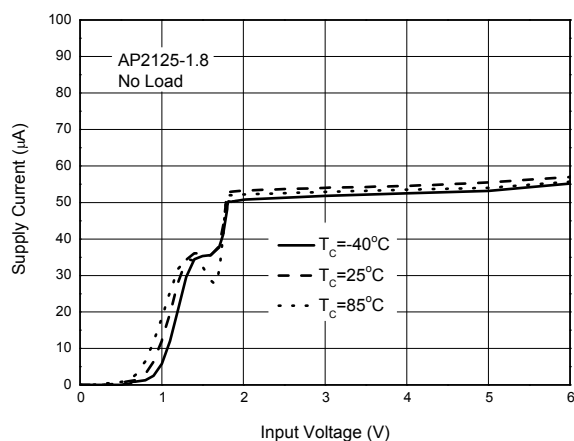
**Typical Performance Characteristics (Continued)**

Figure 20. Supply Current vs. Input Voltage

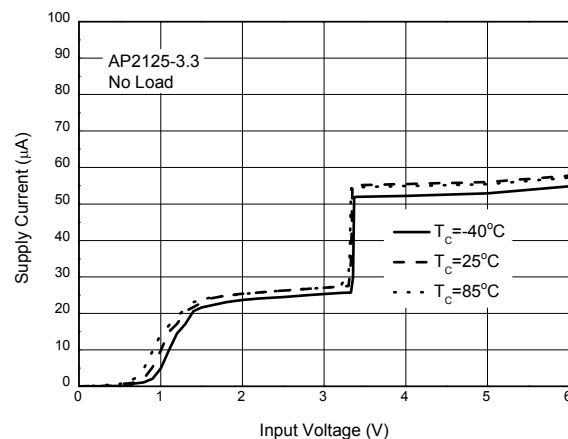


Figure 21. Supply Current vs. Input Voltage

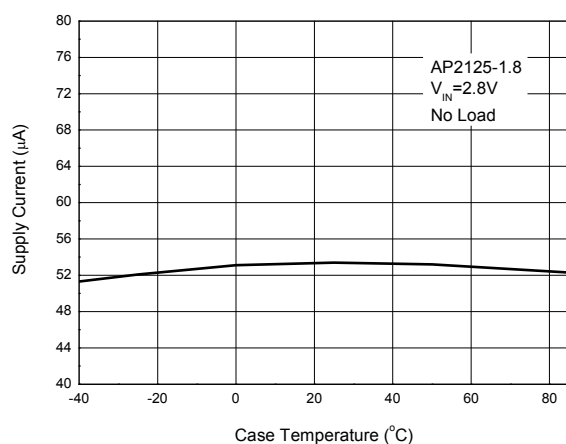


Figure 22. Supply Current vs. Case Temperature

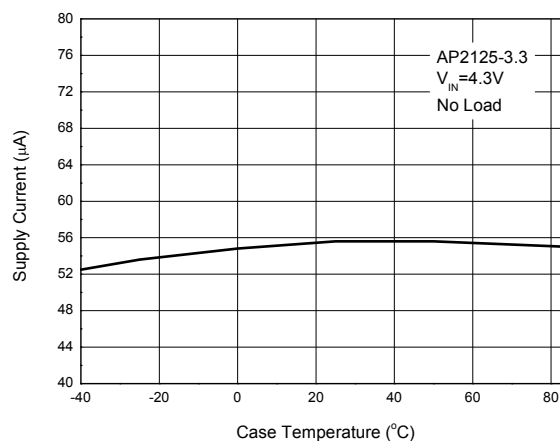


Figure 23. Supply Current vs. Case Temperature

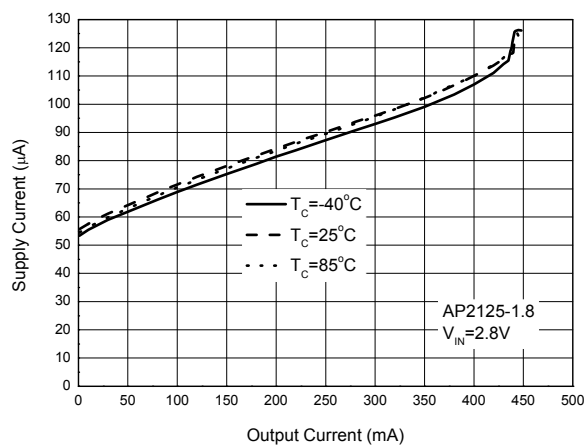
**Typical Performance Characteristics (Continued)**

Figure 24. Supply Current vs. Output Current

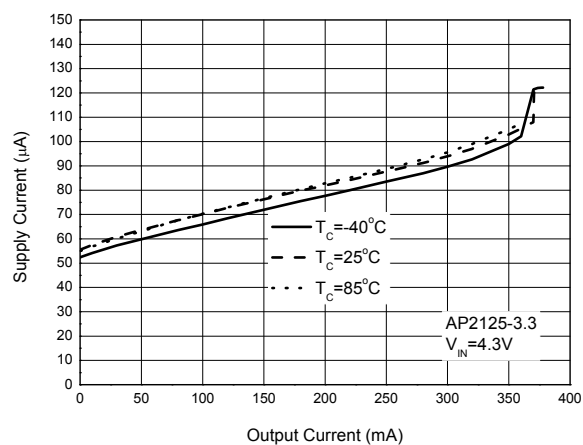


Figure 25. Supply Current vs. Output Current

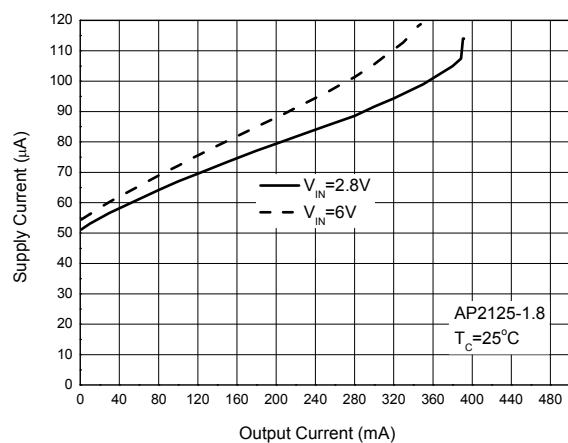


Figure 26. Supply Current vs. Output Current

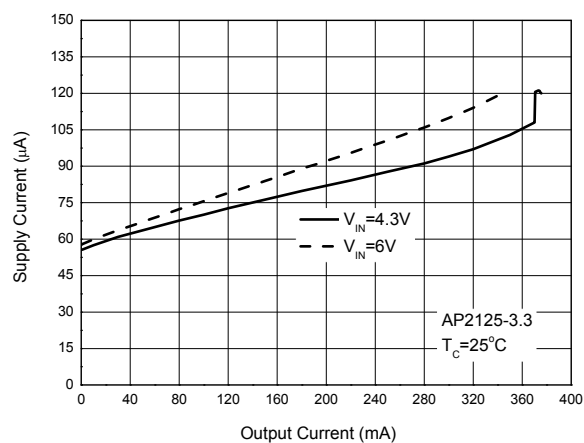


Figure 27. Supply Current vs. Output Current

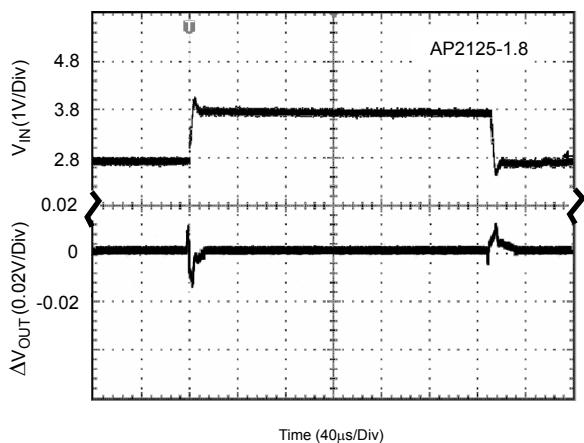
**Typical Performance Characteristics (Continued)**

Figure 28. Line Transient
(Conditions: $I_{OUT}=30\text{mA}$, $C_{OUT}=1\mu\text{F}$, $V_{IN}=2.8$ to 3.8V)

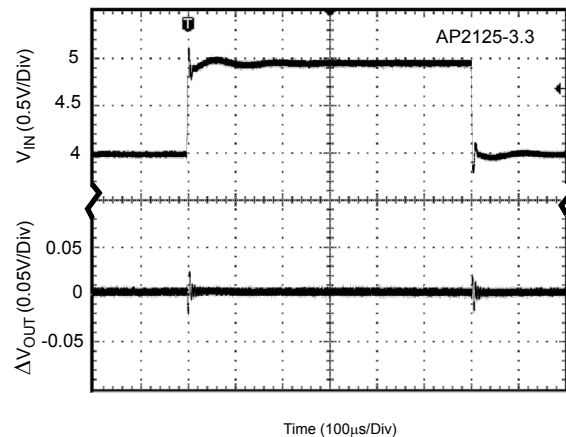


Figure 29. Line Transient
(Conditions: $I_{OUT}=30\text{mA}$, $C_{OUT}=1\mu\text{F}$, $V_{IN}=4$ to 5V)

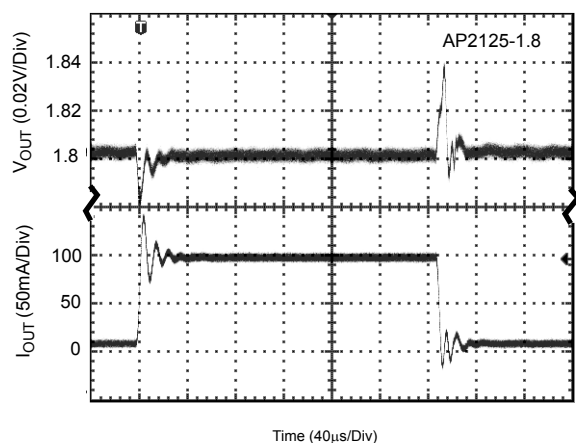


Figure 30. Load Transient
(Conditions: $I_{OUT}=10$ to 100mA , $C_{IN}=1\mu\text{F}$,
 $C_{OUT}=1\mu\text{F}$, $V_{IN}=2.8\text{V}$)

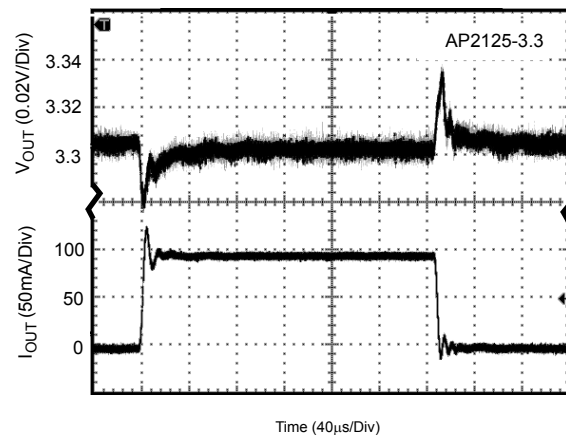


Figure 31. Load Transient
(Conditions: $I_{OUT}=10$ to 100mA , $C_{IN}=1\mu\text{F}$,
 $C_{OUT}=1\mu\text{F}$, $V_{IN}=4.3\text{V}$)

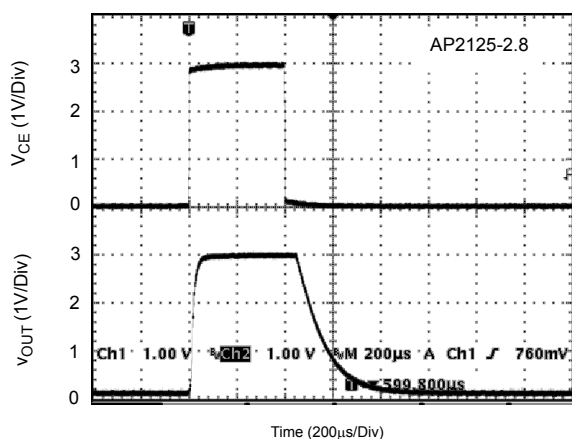
**Typical Performance Characteristics (Continued)**

Figure 32. Enable Input Response and Auto-discharge
(Conditions: V_{CE}=0 to 3V, C_{IN}=1µF,
C_{OUT}=1µF, V_{IN}=3V, no load)

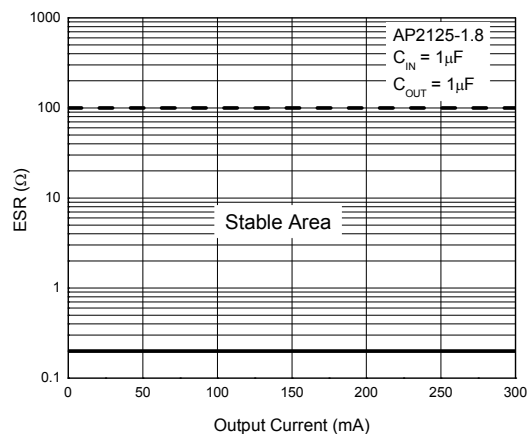


Figure 33. ESR vs. Output Current

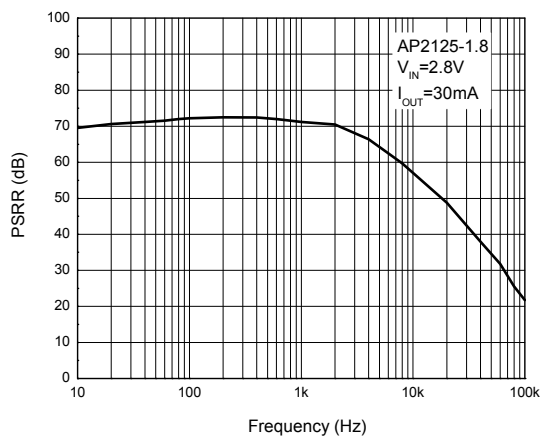


Figure 34. PSRR

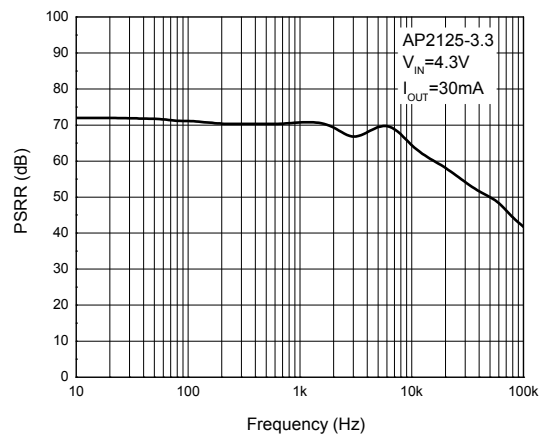


Figure 35. PSRR

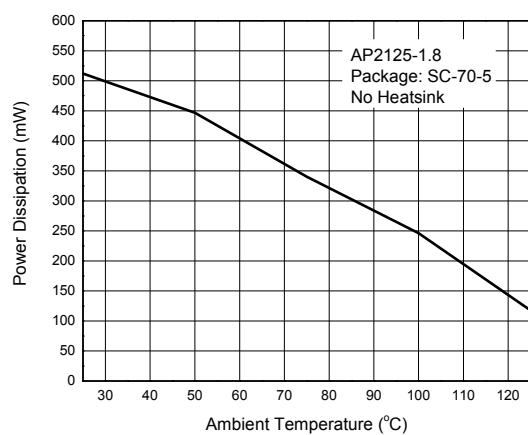
**Typical Performance Characteristics (Continued)**

Figure 36. Power Dissipation vs. Ambient Temperature

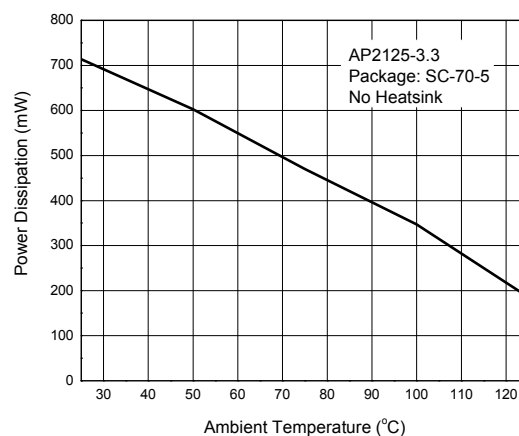


Figure 37. Power Dissipation vs. Ambient Temperature

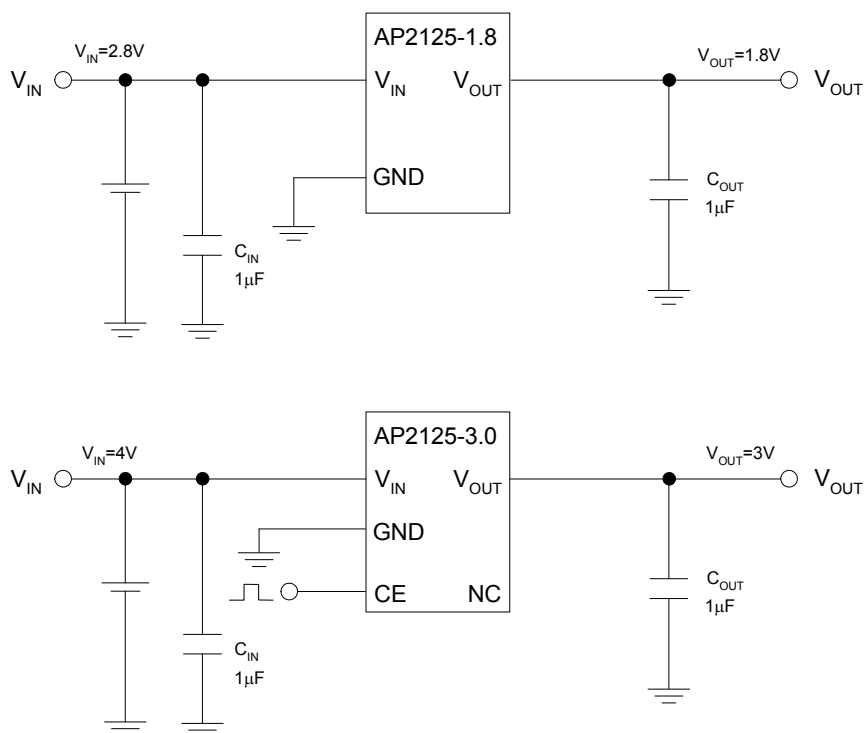
**Typical Application**

Figure 38. Typical Application of AP2125

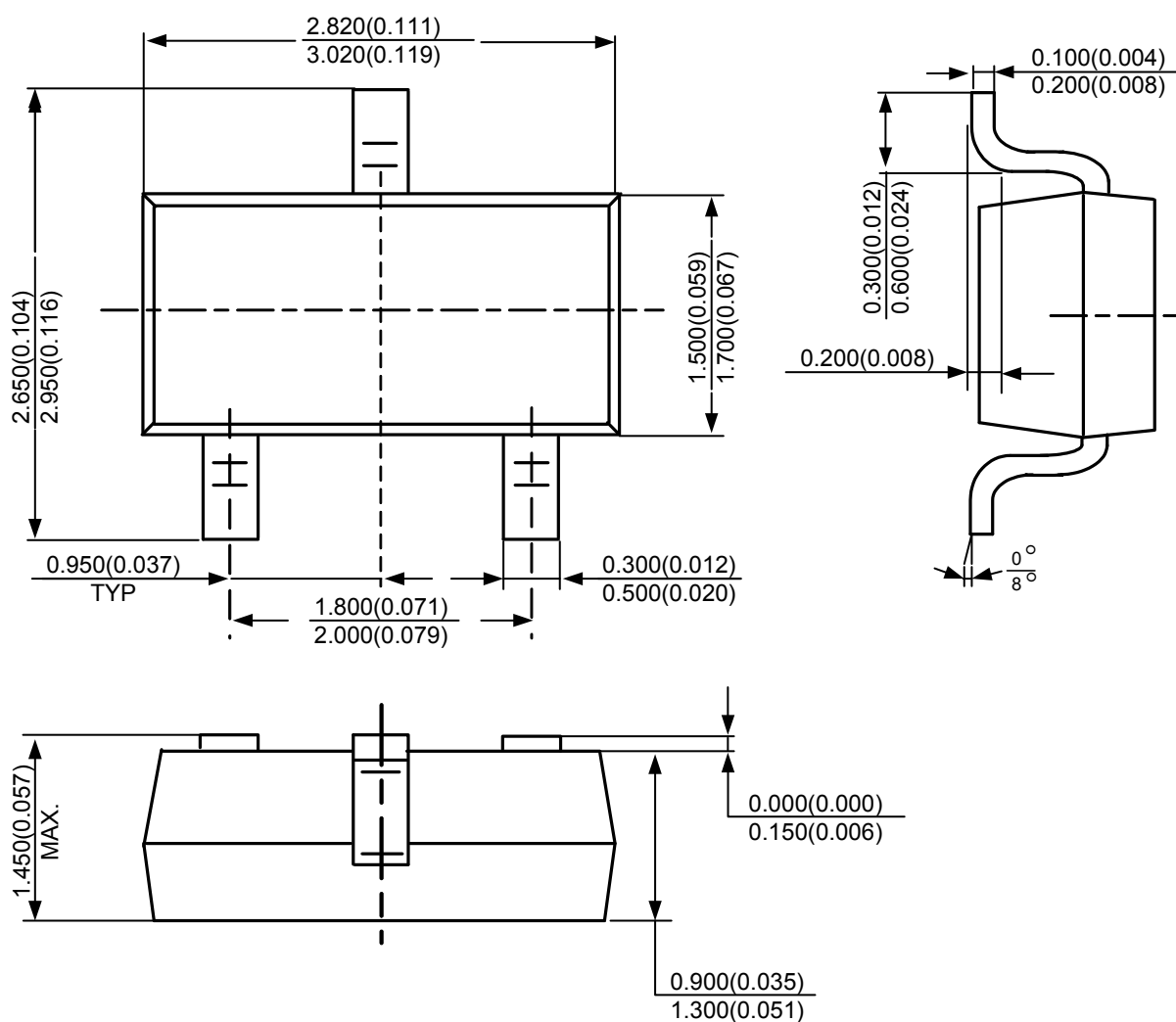


AP2125

Mechanical Dimensions

SOT-23-3

Unit: mm(inch)

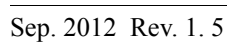




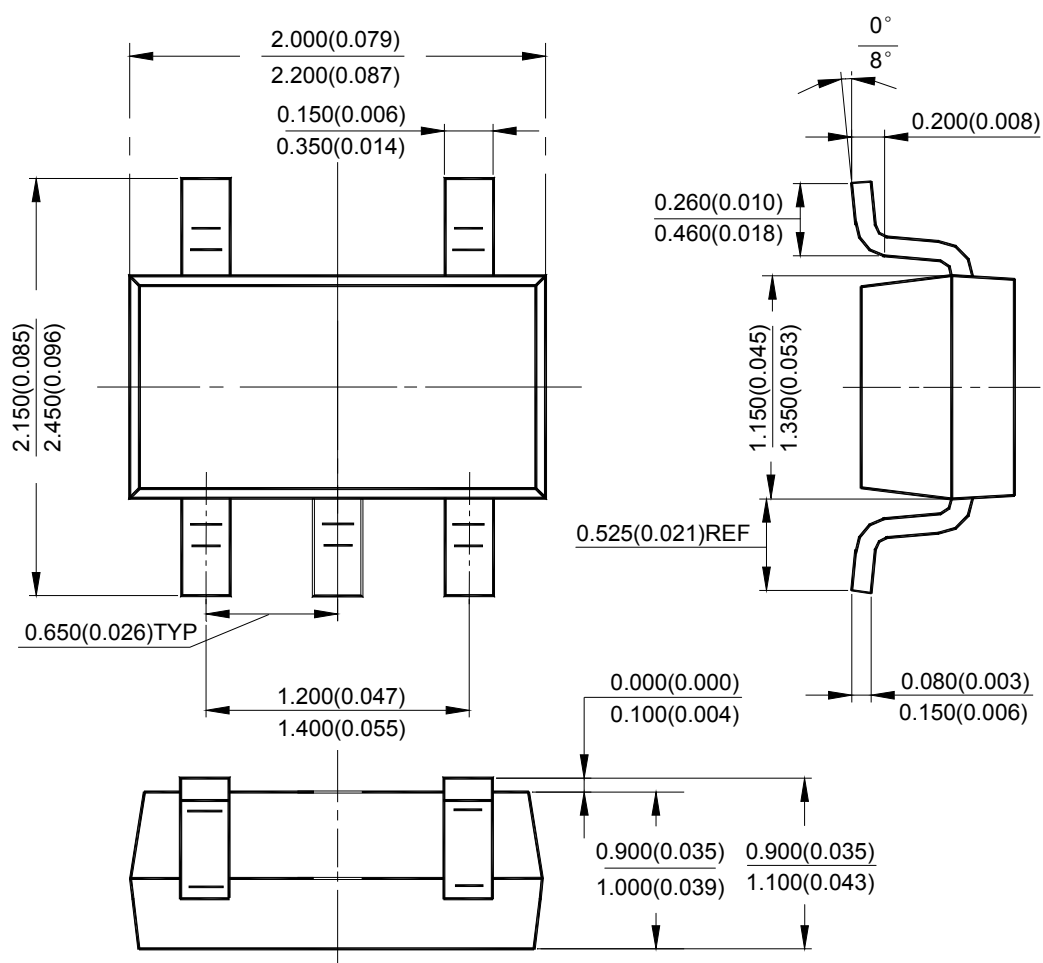
AP2125

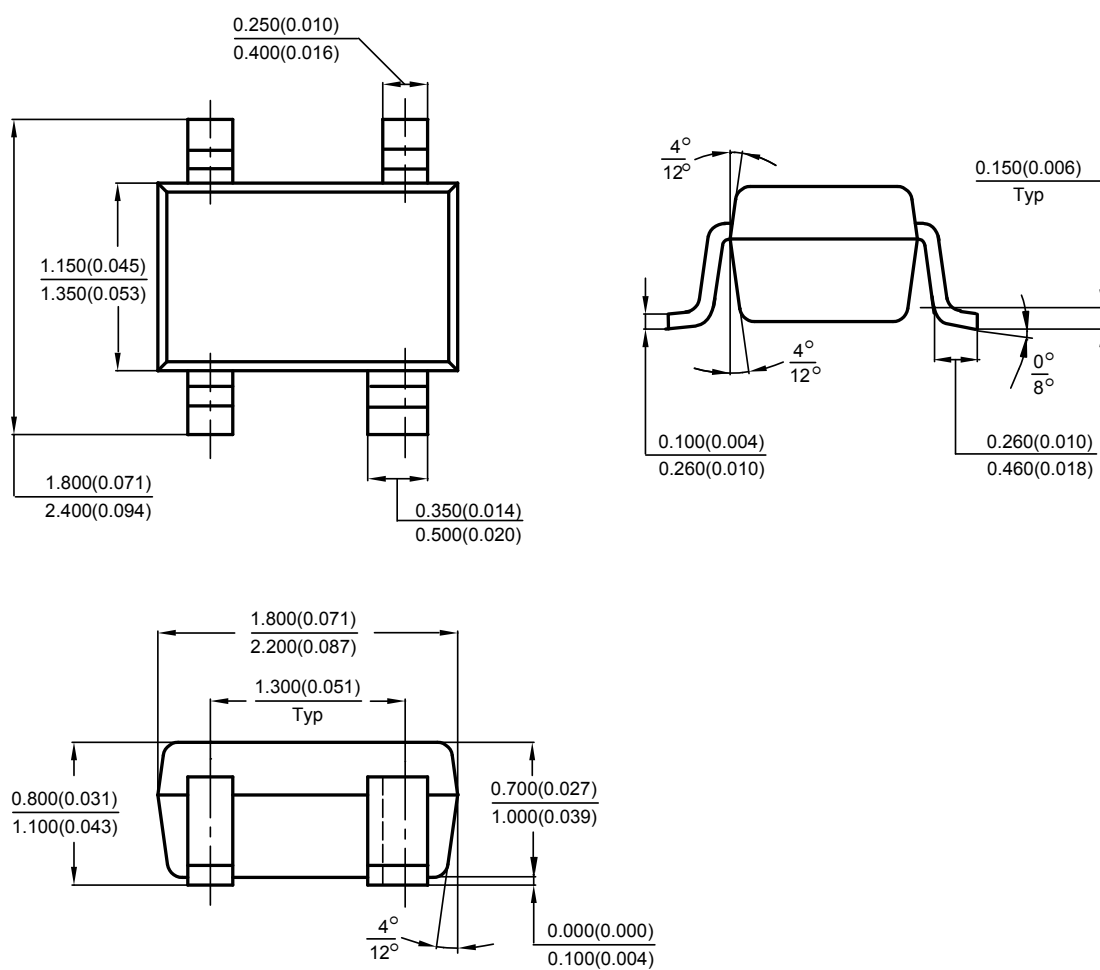
SOT-23-5

Unit: mm(inch)



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**Mechanical Dimensions (Continued)****SC-70-5****Unit: mm(inch)**

**Mechanical Dimensions (Continued)****SC-82****Unit: mm(inch)**



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