Description

The AP2125 series are 300mA, positive voltage regulator ICs fabricated by CMOS process.

Each of these ICs is equipped with a voltage reference, an error amplifier, a resistor network for setting output voltage, a chip enable circuit, a current limit circuit and OTSD (over temperature shut down) circuit to prevent the IC from over current and over temperature.

The AP2125 series have features of high ripple rejection, low dropout voltage, low noise, high output voltage accuracy and low current consumption which make them ideal for use in various battery-powered apparatus.

The AP2125 have 1.8V, 2.5V, 2.8V, 3.0V, 3.3V, 4.15V and 4.2V fixed voltage versions.

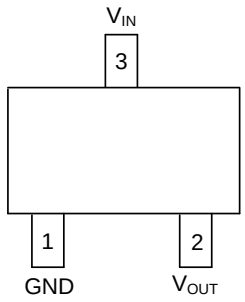
These ICs are available in tiny SC-70-5 packages as well as industry standard SOT-23-3 and SOT-23-5 packages.

Features

- Excellent Ripple Rejection: 70dB Typical (1.8V Version)
- Low Dropout Voltage: 65mV (I_{OUT}=100mA, 3.3V Version)
- Low Standby Current: 0.01µA Typical
- Low Quiescent Current: 60µA Typical
- Extremely Low Noise: 50µVrms Typical
- Maximum Output Current: 300mA (Min.)
- High Output Voltage Accuracy: ±2%
- Compatible with Low ESR Ceramic Capacitor
- Excellent Line/Load Regulation
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

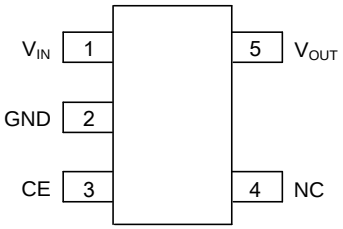
Pin Assignments

(Top View)



SOT-23-3

(Top View)



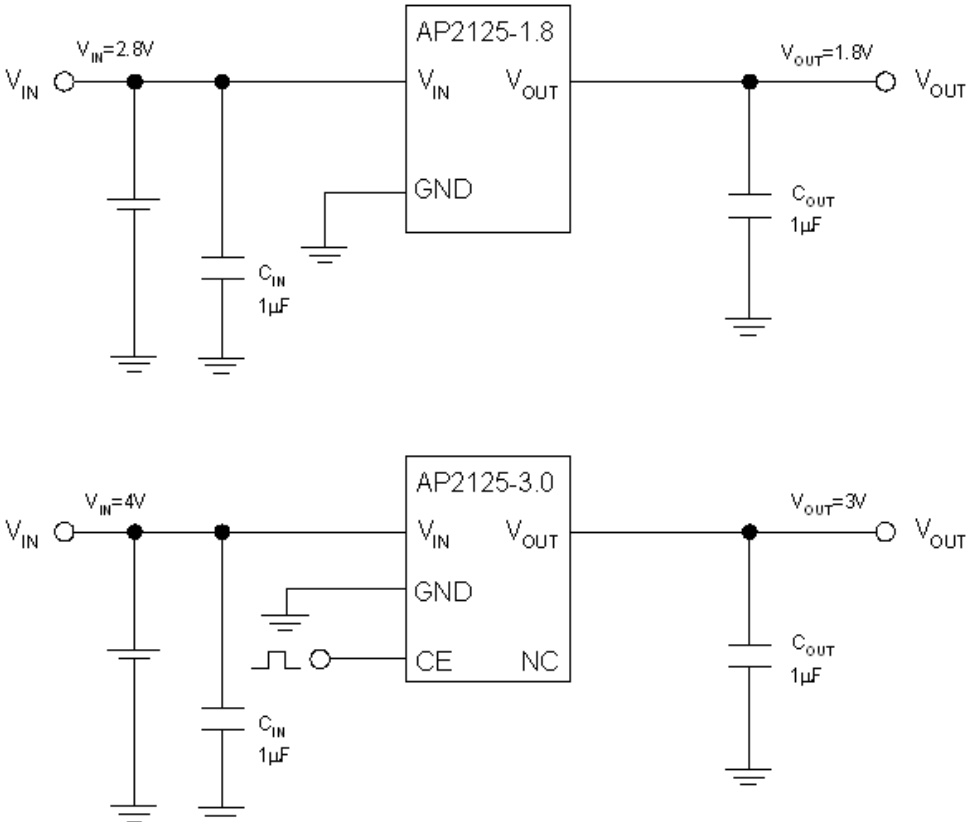
SOT-23-5/SC-70-5

Applications

- CDMA/GSM Cellular Handsets
- Battery-powered Equipments
- Laptops, Palmtops, Notebook Computers
- Hand-held Instruments
- PCMCIA Cards
- Portable Information Appliances

Notes:
1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
2. See http://www.diodes.com/quality/lead_free.html for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

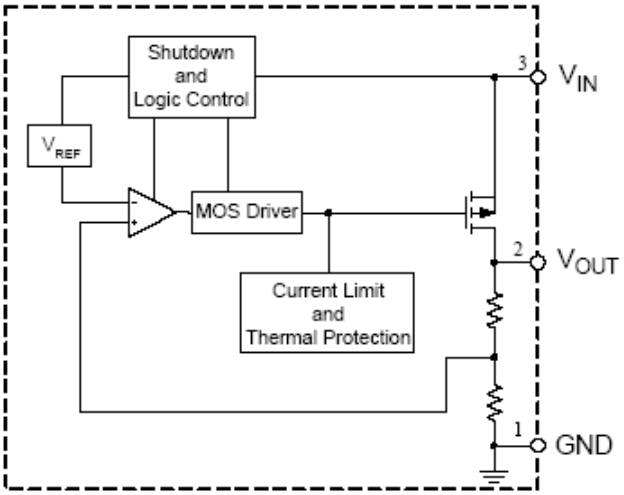
Typical Applications Circuit



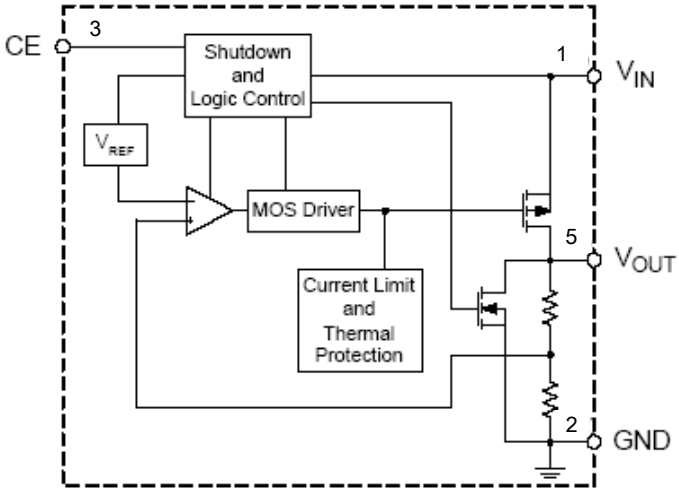
Pin Descriptions

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		ºC
T_{STG}	Storage Temperature Range	-65 to +150		ºC
T_{LEAD}	Lead Temperature (Soldering, 10sec)	+260		ºC
θ_{JA}	Thermal Resistance	SOT-23-3	200	ºC/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	ºC

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.)

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
$(\Delta V_{OUT}/V_{OUT})/\Delta T$	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°C, C_{IN} = 1µF, C_{OUT} = 1µF, **Bold** typeface applies over -40°C ≤ T_J ≤ +85°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
$(\Delta V_{OUT}/V_{OUT})/\Delta T$	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°C, C_{IN} = 1µF, C_{OUT} = 1µF, **Bold** typeface applies over -40°C ≤ T_J ≤ +85°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
$(\Delta V_{OUT}/V_{OUT})/\Delta T$	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°C, C_{IN} = 1µF, C_{OUT} = 1µF, **Bold** typeface applies over -40°C ≤ T_J ≤ +85°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
$(\Delta V_{OUT}/V_{OUT})/\Delta T$	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°C, C_{IN} = 1µF, C_{OUT} = 1µF, **Bold** typeface applies over -40°C ≤ T_J ≤ +85°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
$(\Delta V_{OUT}/V_{OUT})/\Delta T$	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°C, C_{IN} = 1µF, C_{OUT} = 1µF, **Bold** typeface applies over -40°C ≤ T_J ≤ +85°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
$(\Delta V_{OUT}/V_{OUT})/\Delta T$	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

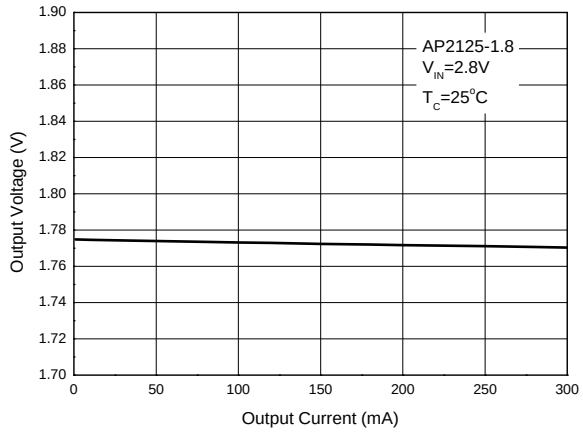
Electrical Characteristics (Cont.)

AP2125-4.2 Electrical Characteristics (@V_{IN} = 5.2V, T_A = +25°C, C_{IN} = 1µF, C_{OUT} = 1µF, **Bold** typeface applies over -40°C ≤ T_J ≤ +85°C, unless otherwise specified.)

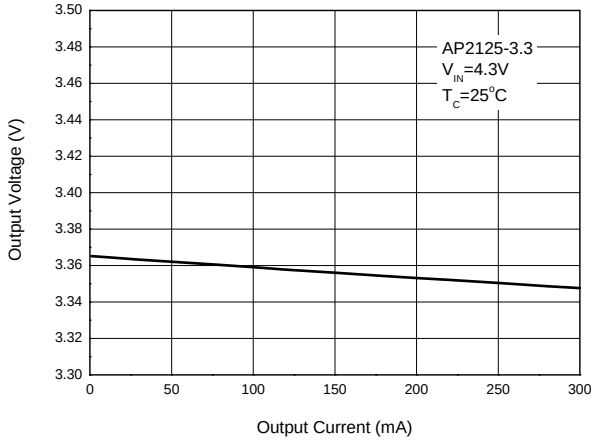
Symbol	Parameter	Conditions		Min	Typ	Max	Unit
V_{OUT}	Output Voltage	V_{IN} = 5.2V 1mA ≤ I_{OUT} ≤ 30mA		4.116	4.2	4.284	V
V_{IN}	Input Voltage	–		–	–	6	V
$I_{OUT(MAX)}$	Maximum Output Current	V_{IN}-V_{OUT} = 1V, V_{OUT} = 4.12V		300	360	–	mA
V_{RLOAD}	Load Regulation	V_{IN} = 5.2V 1mA ≤ I_{OUT} ≤ 300mA		–	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
$(\Delta V_{OUT}/V_{OUT})/\Delta T$	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

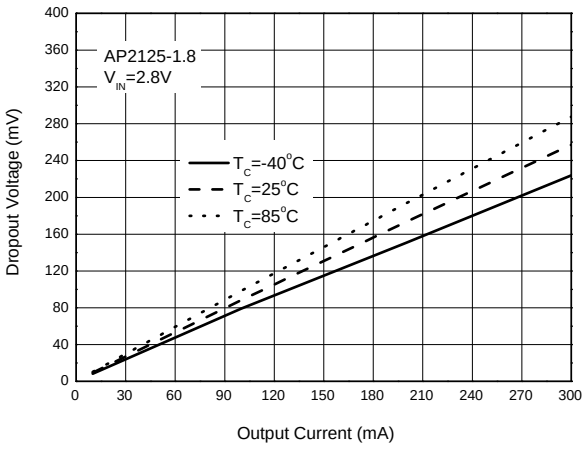
Output Voltage vs. Output Current



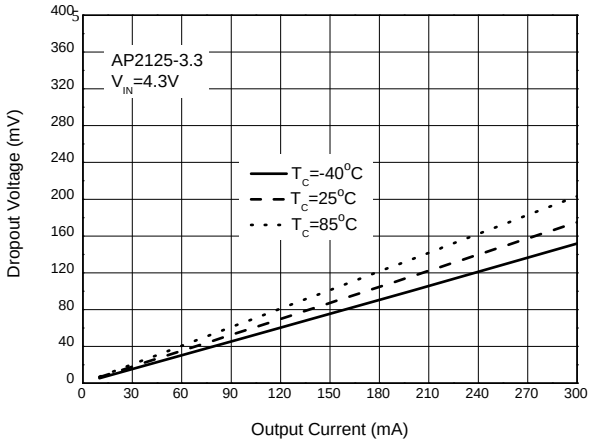
Output Voltage vs. Output Current



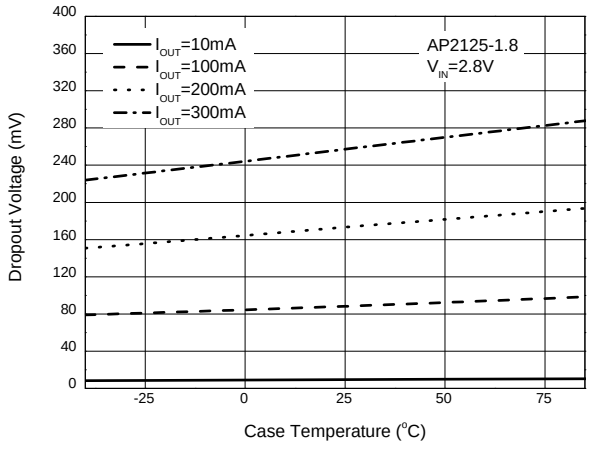
Dropout Voltage vs. Output Current



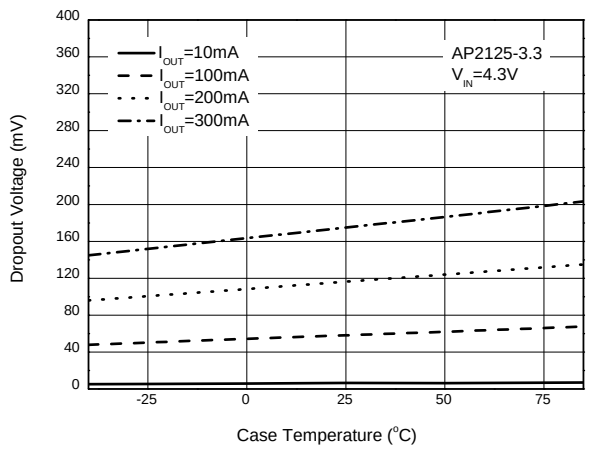
Dropout Voltage vs. Output Current



Dropout Voltage vs. Case Temperature

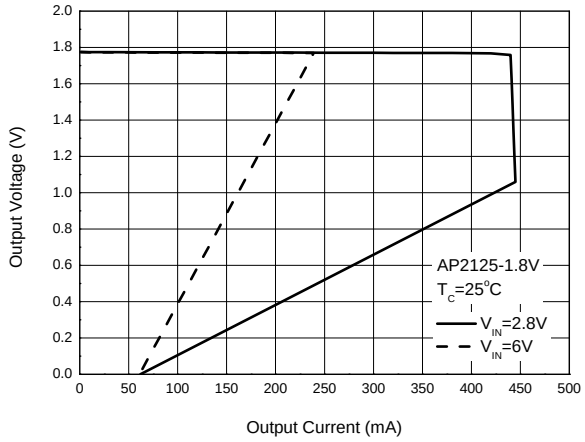


Dropout Voltage vs. Case Temperature

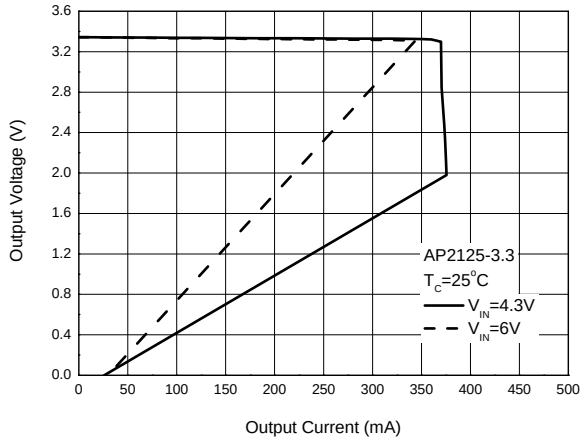


Performance Characteristics (Cont.)

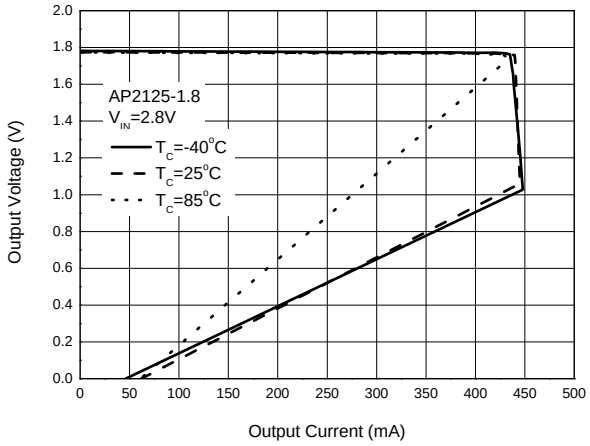
Current Limit



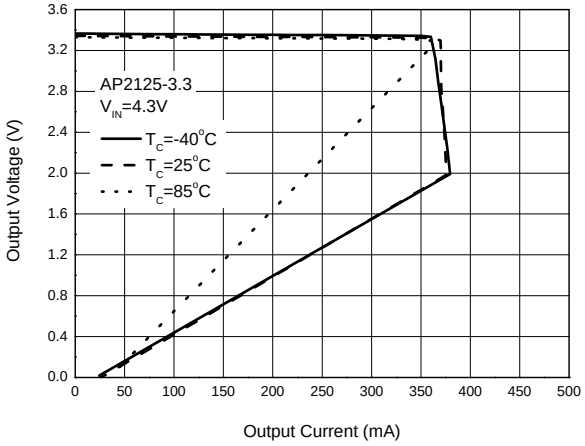
Current Limit



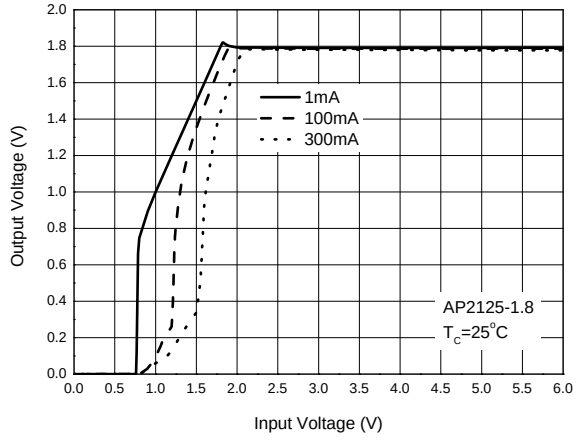
Current Limit



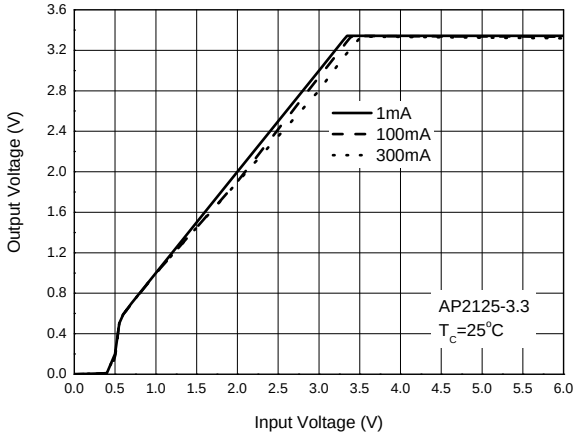
Current Limit



Output Voltage vs. Input Voltage

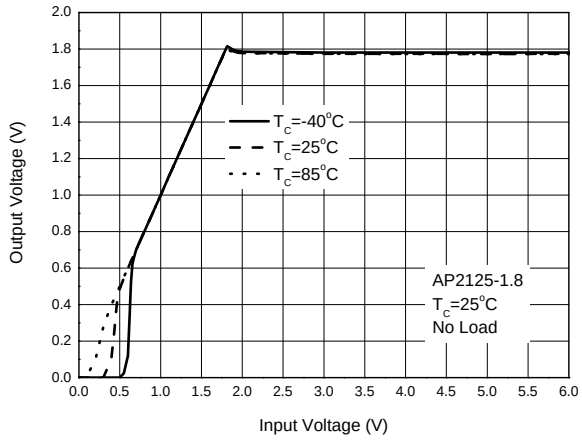


Output Voltage vs. Input Voltage

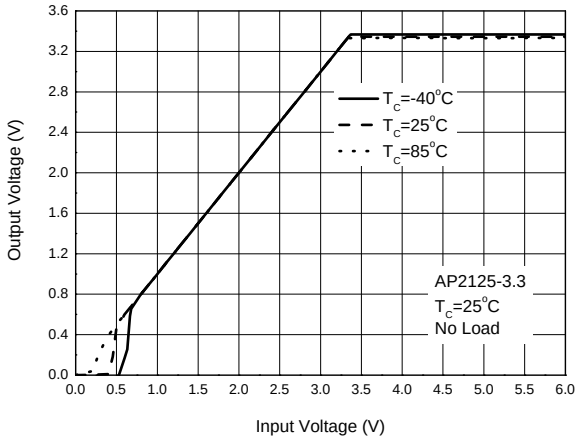


Performance Characteristics (Cont.)

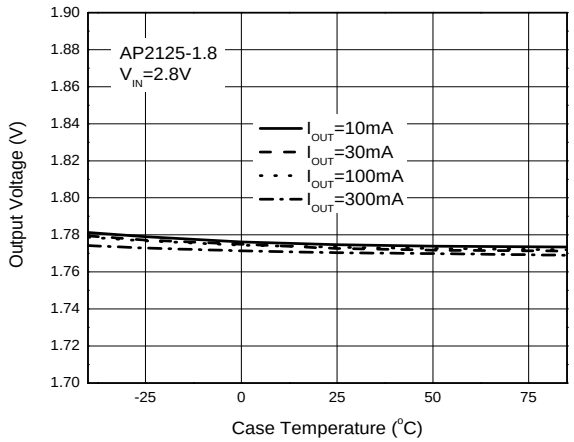
Output Voltage vs. Input Voltage



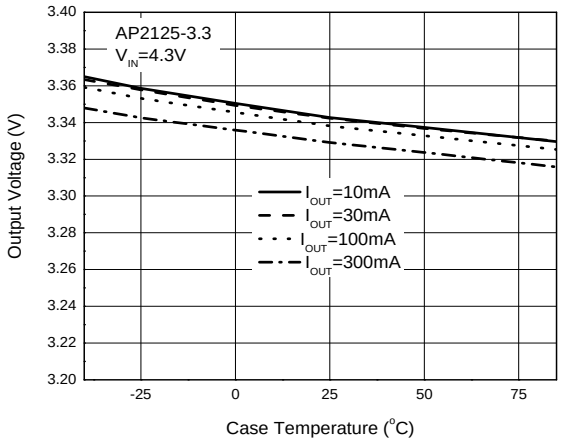
Output Voltage vs. Input Voltage



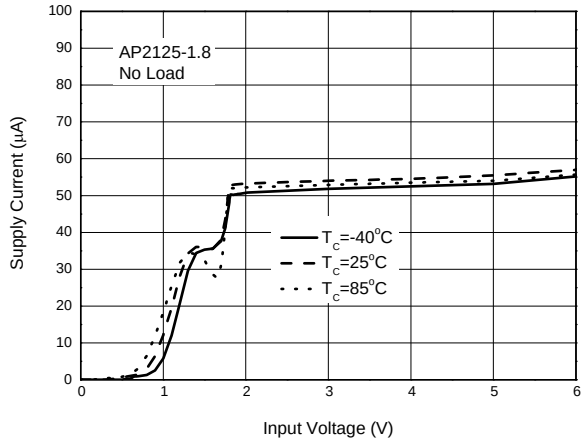
Output Voltage vs. Case Temperature



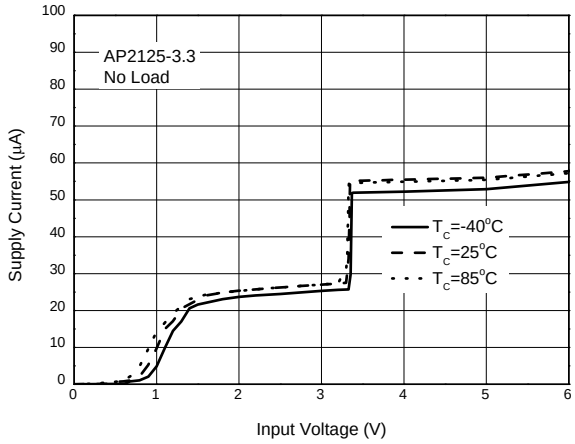
Output Voltage vs. Case Temperature



Supply Current vs. Input Voltage

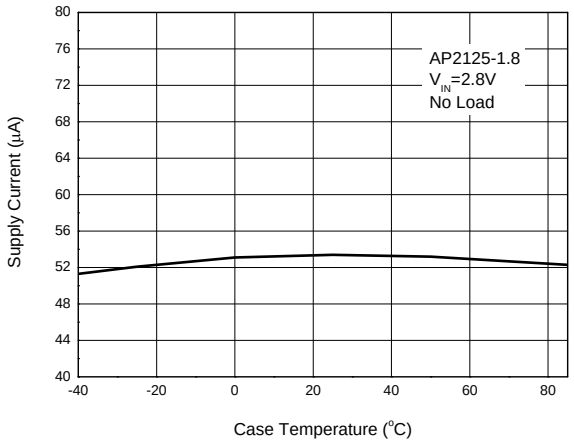


Supply Current vs. Input Voltage

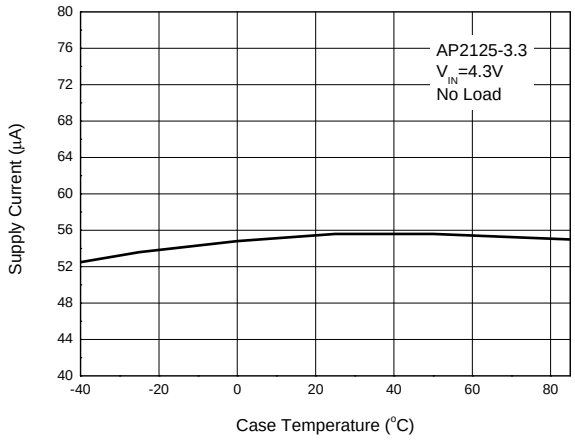


Performance Characteristics (Cont.)

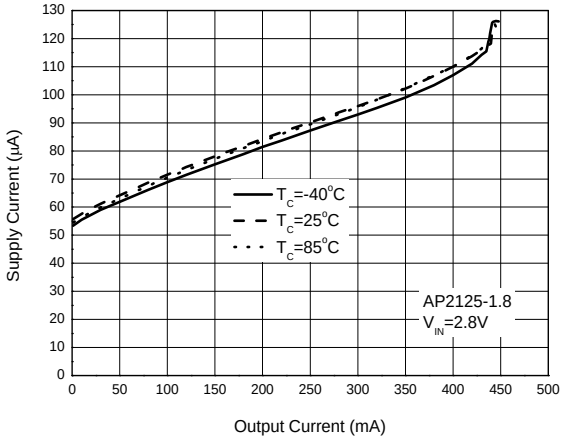
Supply Current vs. Case Temperature



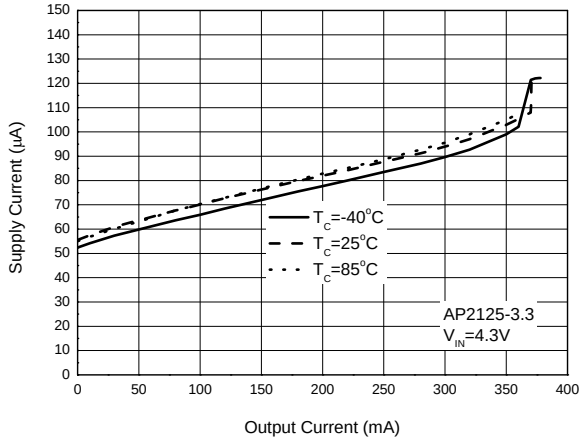
Supply Current vs. Case Temperature



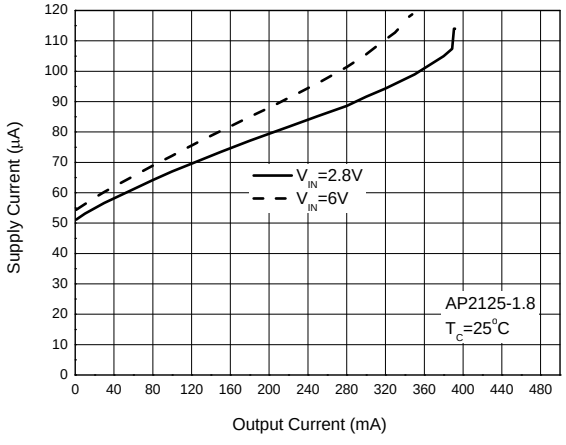
Supply Current vs. Output Current



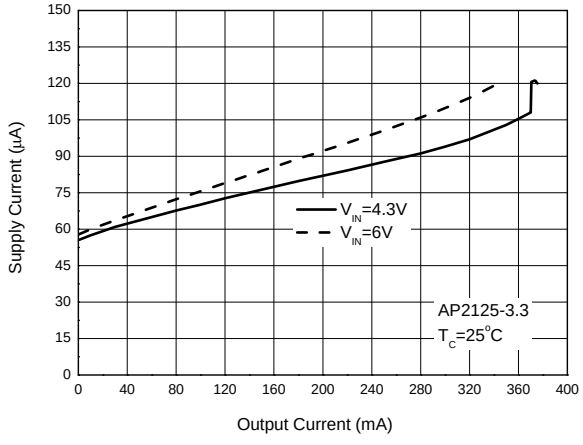
Supply Current vs. Output Current



Supply Current vs. Output Current

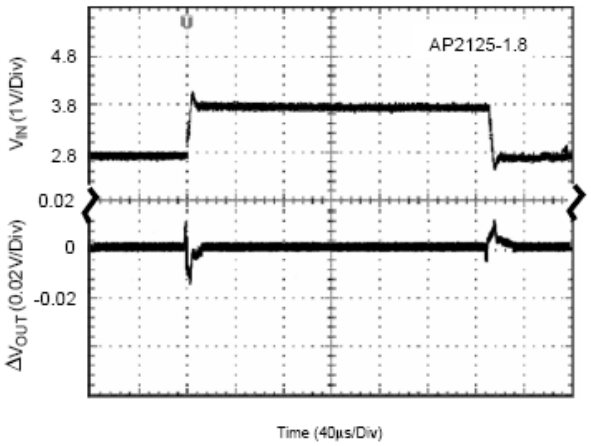


Supply Current vs. Output Current

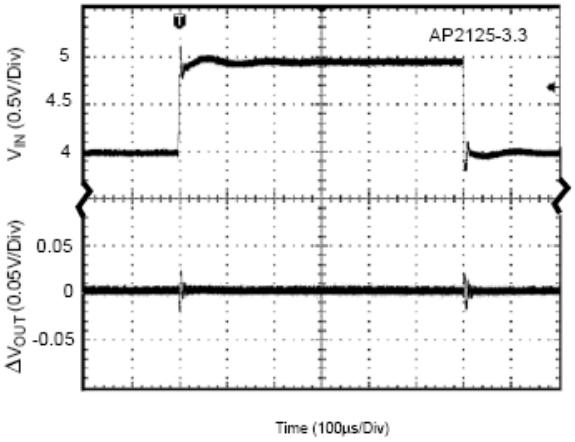


Performance Characteristics (Cont.)

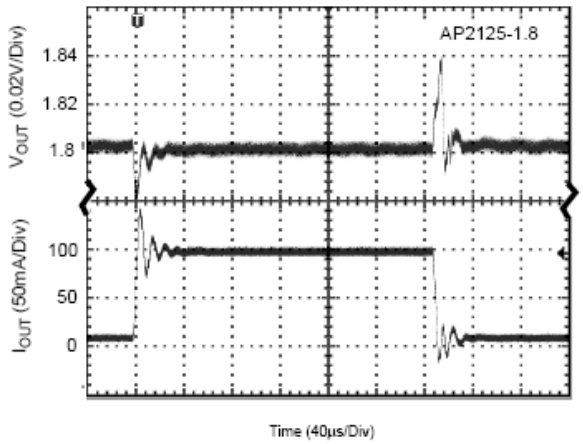
Line Transient
(Conditions: I_{OUT} = 30mA, C_{OUT} = 1µF, V_{IN} = 2.8V to 3.8V)



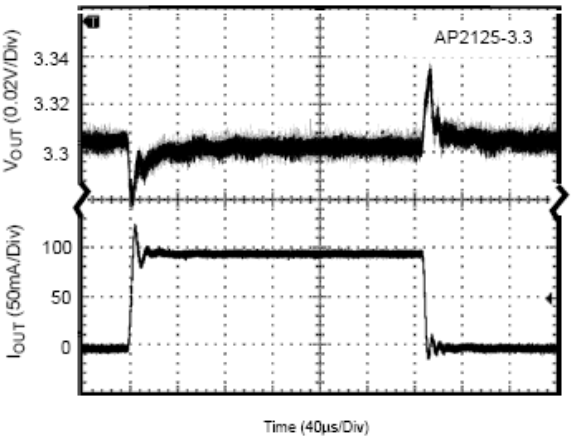
Line Transient
(Conditions: I_{OUT} = 30mA, C_{OUT} = 1µF, V_{IN} = 4V to 5V)



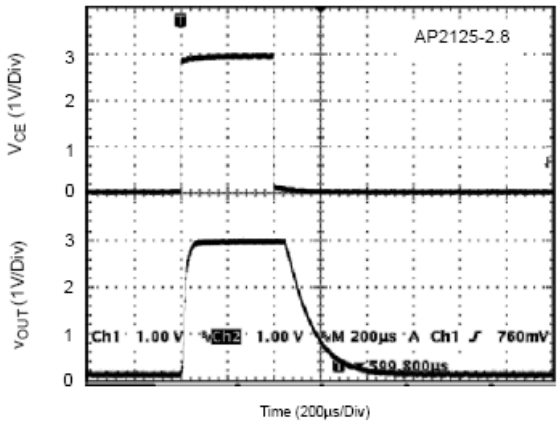
Load Transient
(Conditions: I_{OUT} = 10 to 100mA, C_{IN} = 1µF, C_{OUT} = 1µF, V_{IN} = 2.8V)



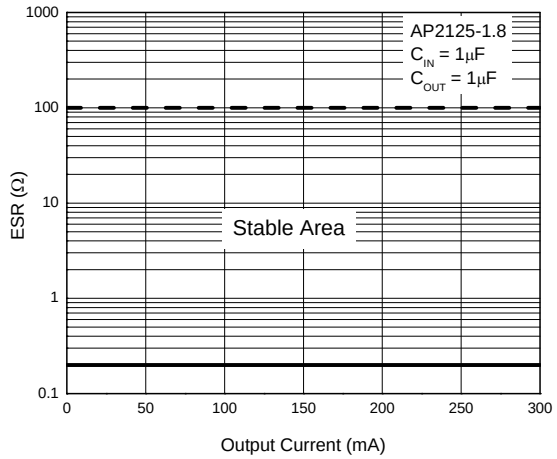
Load Transient
(Conditions: I_{OUT} = 10 to 100mA, C_{IN} = 1µF, C_{OUT} = 1µF, V_{IN} = 4.3V)



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

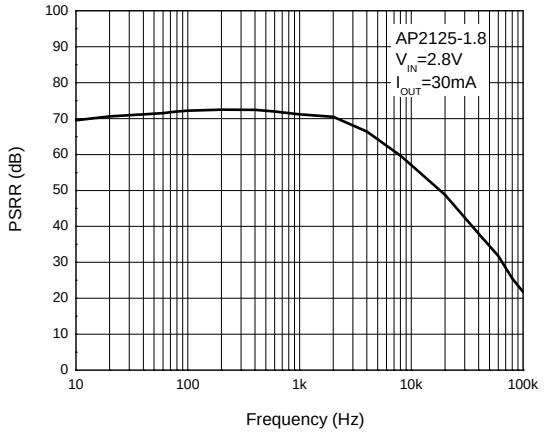


ESR vs. Output Current

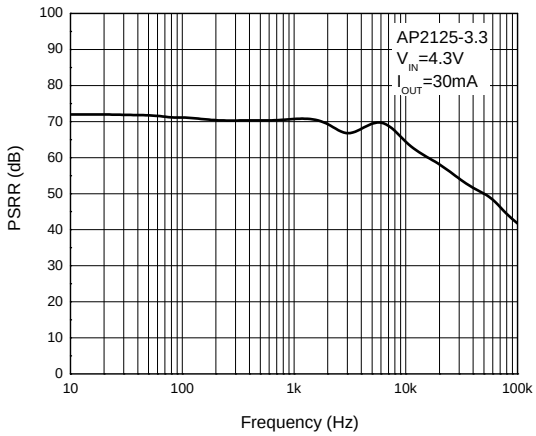


Performance Characteristics (Cont.)

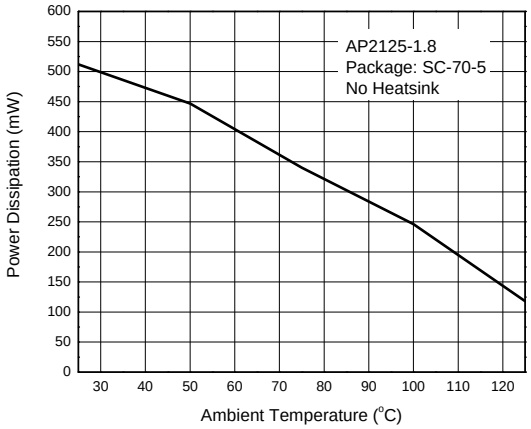
PSRR



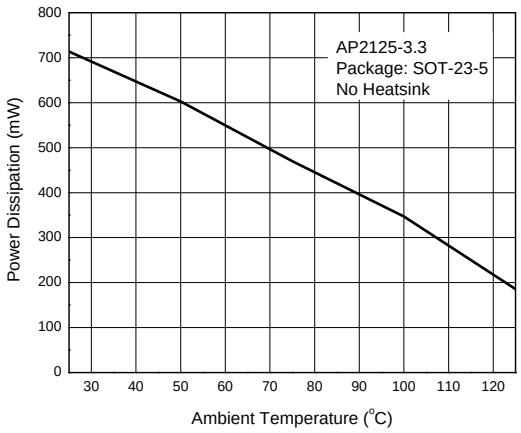
PSRR



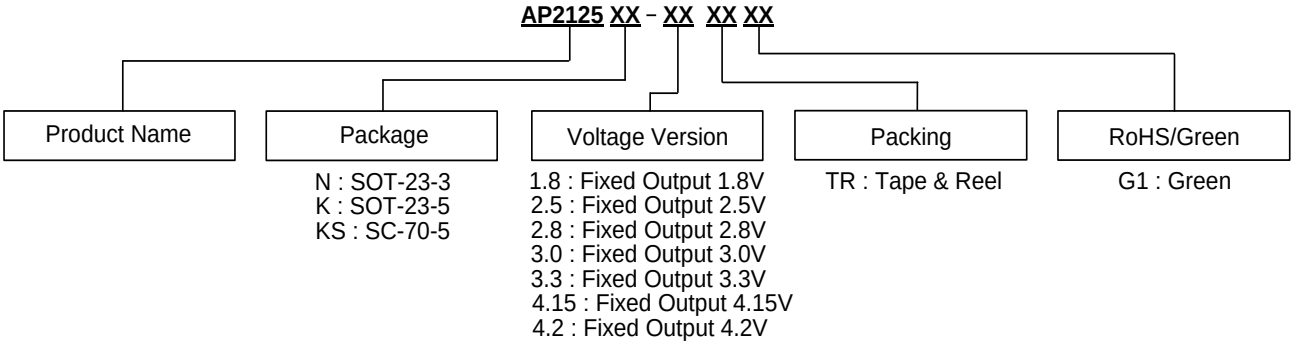
Power Dissipation vs. Ambient Temperature



Power Dissipation vs. Ambient Temperature



Ordering Information

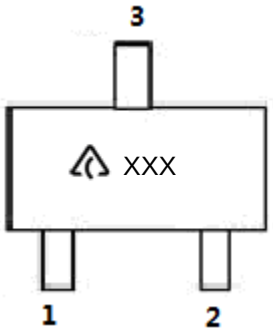


Package	Temperature Range	Part Number	Marking ID	Packing
SOT-23-3	-40 to +85°C	AP2125N-1.8TRG1	GJ2	3000/Tape & Reel
		AP2125N-2.5TRG1	GJ4	3000/Tape & Reel
		AP2125N-2.8TRG1	GJ5	3000/Tape & Reel
		AP2125N-3.0TRG1	GJ6	3000/Tape & Reel
		AP2125N-3.3TRG1	GJ7	3000/Tape & Reel
		AP2125N-4.2TRG1	GJ3	3000/Tape & 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

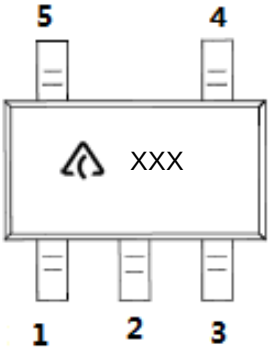
(Top View)



: Logo
XXX: Marking ID
(See Ordering Information)

(2) SOT-23-5

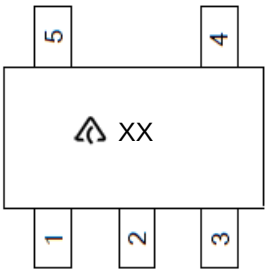
(Top View)



: Logo
XXX: Marking ID
(See Ordering Information)

(3) SC-70-5

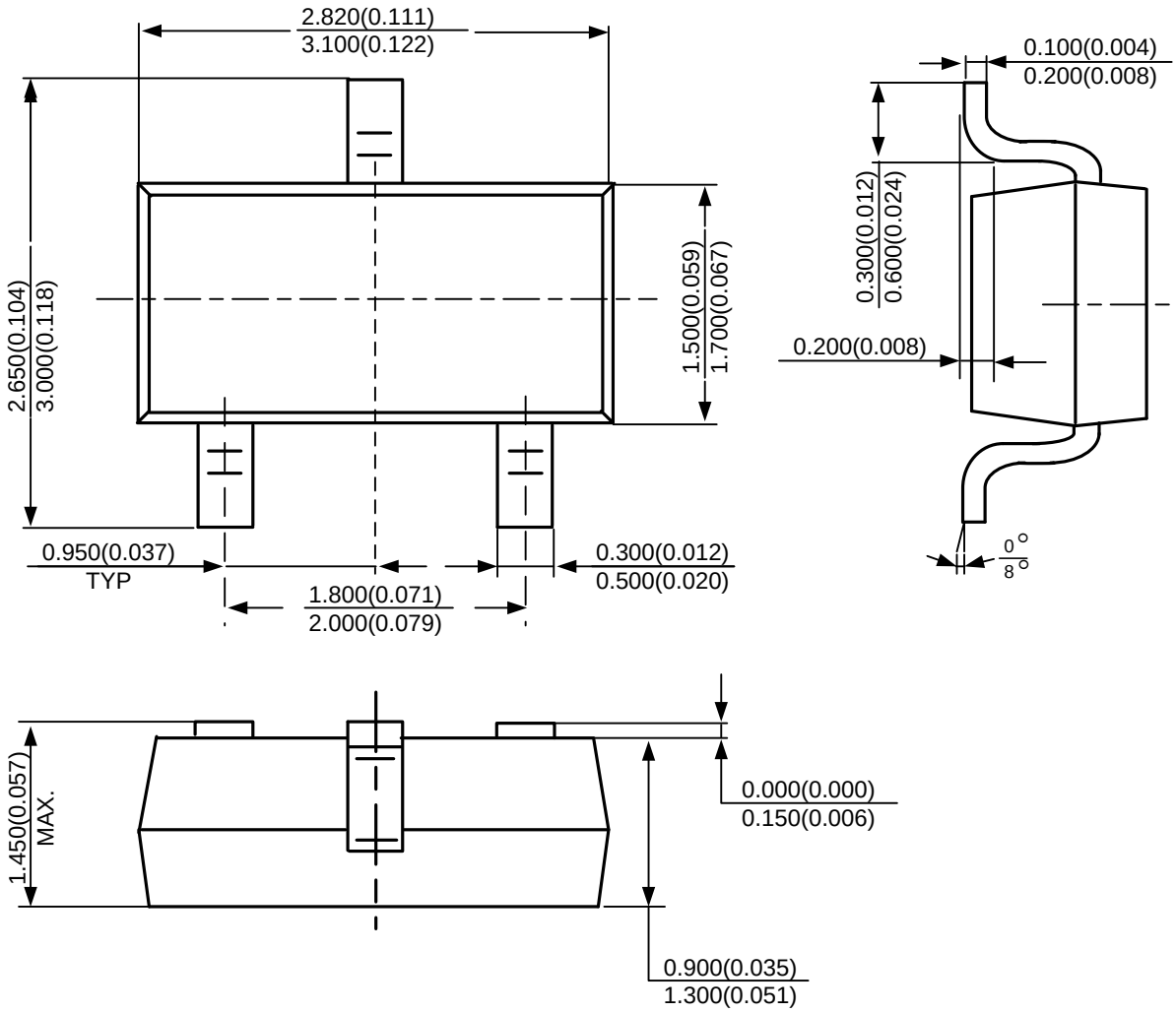
(Top View)



: Logo
XX: Marking ID
(See Ordering Information)

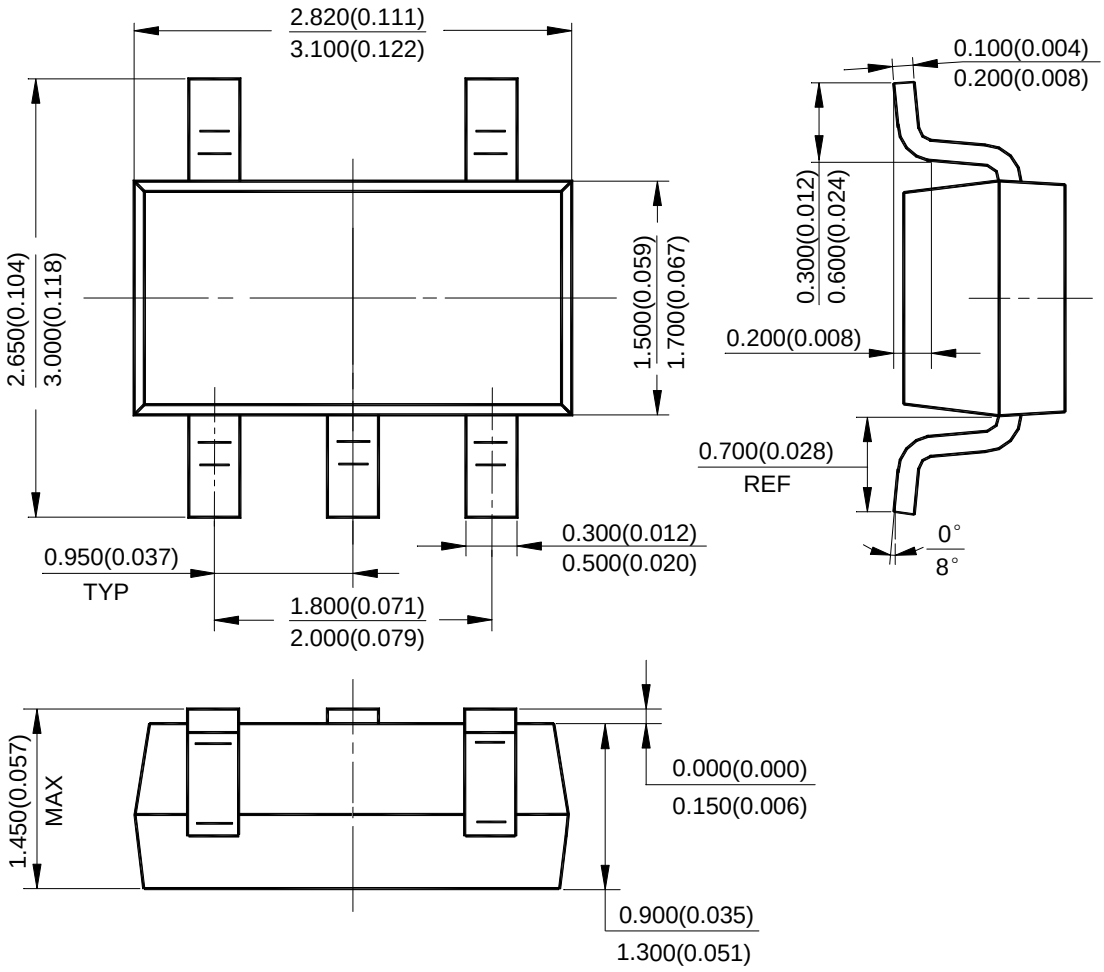
Package Outline Dimensions (All dimensions in mm(inch).)

(1) Package Type: SOT-23-3



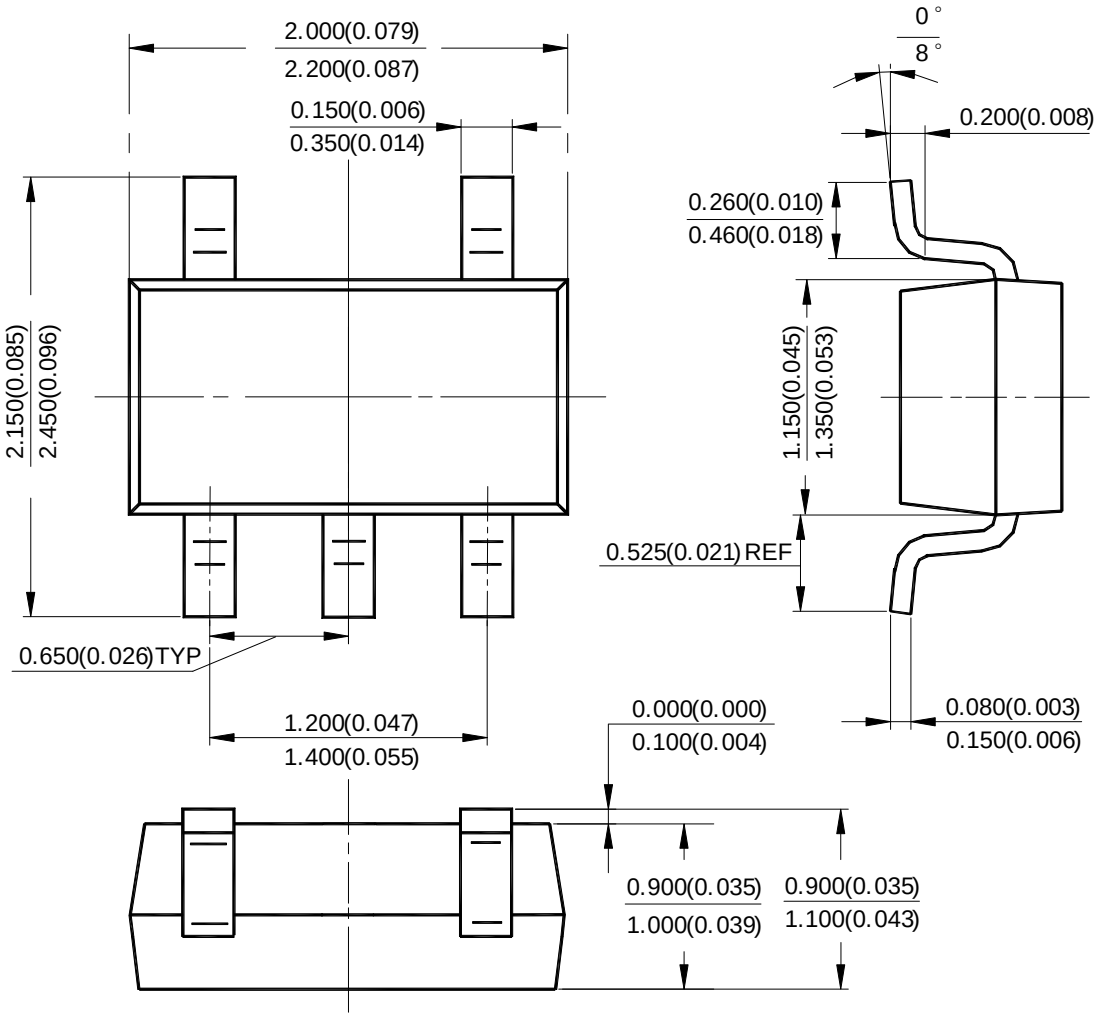
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(2) Package Type: SOT-23-5



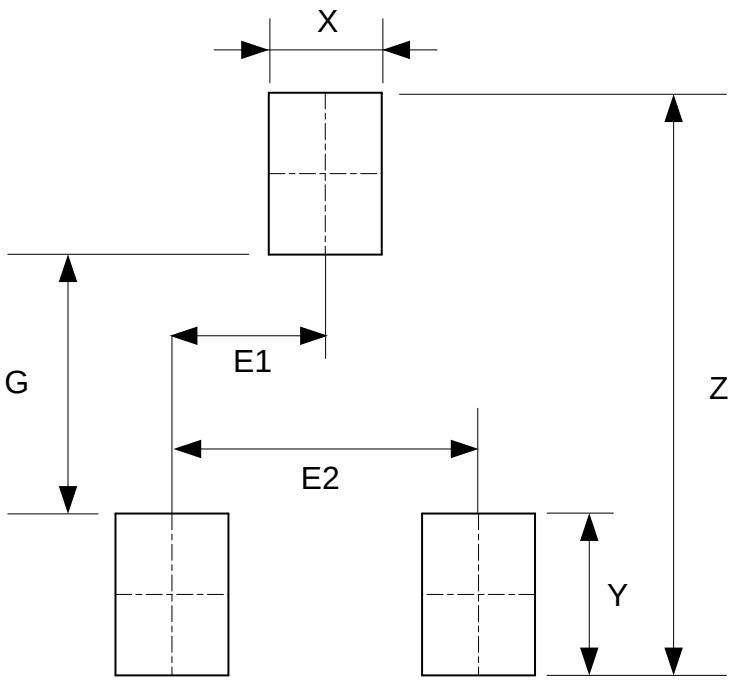
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(3) Package Type: SC-70-5



Suggested Pad Layout

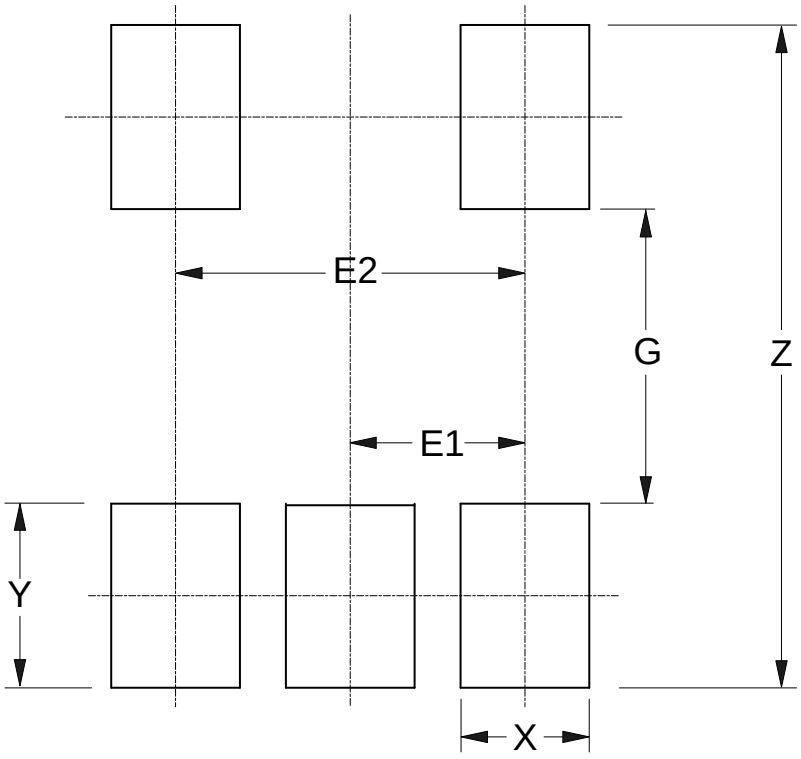
(1) Package Type: SOT-23-3



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.)

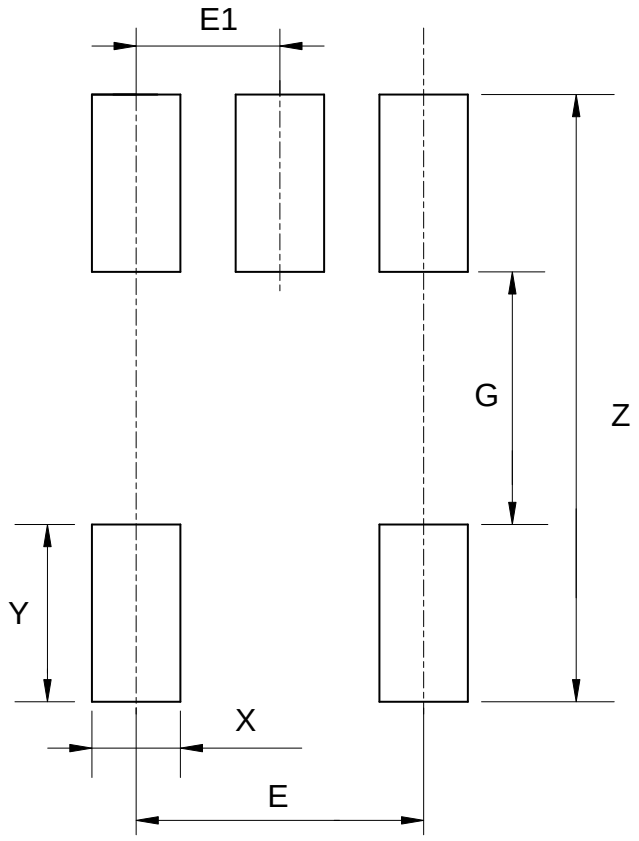
(2) Package Type: SOT-23-5



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

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