





LOW DROPOUT LINEAR REGULATOR WITH INDUSTRIAL TEMPERATURE RANGE

Description

The AZ1117I is available in industrial temperature range low dropout three-terminal regulator.

The AZ1117I is optimized for low voltage where transient response and minimum input voltage are critical. It provides current limit and thermal shutdown. Its circuit includes a trimmed bandgap reference to assure output voltage accuracy to be within $\pm 1\%$. On-chip thermal shutdown provides protection against a combination of high current and ambient temperature that would create excessive junction temperature.

The AZ1117I is available in 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5.0V fixed output voltage versions and ADJ output voltage version. The fixed versions integrate the adjust resistors. It is also available in an adjustable version which can set the output voltage with two external resistors.

The AZ1117I is available in the industry-standard SOT223 and TO252-2 power packages.

Features

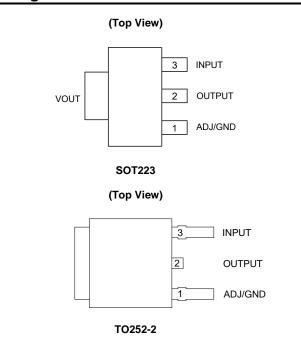
- Current Limit: 1.35A (Typ)
- Output Noise from 10Hz to 10KHz: 0.003% of V_{OUT}
- PSRR at I_{OUT} = 300mA and f = 120Hz: 70dB
- Output Voltage Accuracy: ±1% (Except 1.2V Version)
- On-chip Thermal Shutdown
- Maximum Quiescent Current: IQMAX = 6mA
- Compatible with Low ESR Ceramic Capacitor
- Operation Junction Temperature: -40°C to +125°C
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

Notes:

No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
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.

Pin Assignments

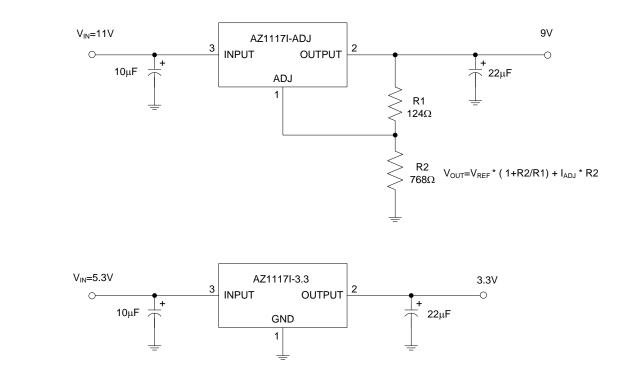


Applications

- USB Device
- Add-on Card
- DVD Player
- PC Motherboard

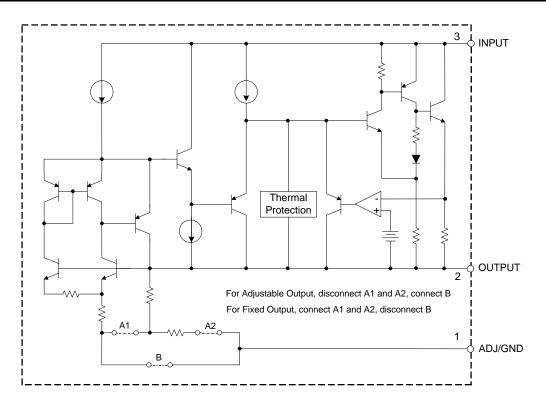


Typical Applications Circuit (Note 4)



Note 4: The AZ1117I is compatible with low ESR ceramic capacitor. The ESR of the output capacitors must be less than 20Ω . A minimum of 10μ F output capacitor is required.

Functional Block Diagram





Absolute Maximum Ratings (Note 5) (@T_A = +25°C, unless otherwise specified.)

Symbol	Parameter	Rating		Unit	
V _{IN}	Input Voltage	18		V	
TJ	Operating Junction Temperature Range	+150		°C	
T _{STG}	Storage Temperature Range	-65 to +150		°C	
θJA	Thermal Resistance (Without Heatsink)	SOT223	125	°C/W	
OJA		TO252-2	100	0/11	
θ _{JA}	Thermal Resistance (With Heatsink) (Note 6)	SOT223	100	°C/W	
UJA		TO252-2	70	0,11	
T _{LEAD}	Lead Temperature (Soldering, 10sec)	+260		°C	

Notes: 5. 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. 6. Chip is soldered to 100mm²(10mm*10mm) copper (top side solder mask) on 2oz.2 layers FR-4 PCB with 8*0.5mm vias.

Recommended Operating Conditions (@T_A = +25°C, unless otherwise specified.)

Symbol	Parameter	Min	Max	Unit
V _{IN}	Input Voltage	-	15	V
TJ	Operating Junction Temperature Range	-40	+125	°C

Electrical Characteristics AZ1117I-ADJ

(Operating Conditions: $V_{IN} = V_{OUT}+2V$, $I_{OUT} = 10$ mA, $T_J = +25$ °C, unless otherwise specified. (P ≤ maximum power dissipation). Limits appearing in Boldface type apply over the entire junction temperature range for operation, -40°C to +125°C.)

Symbol	Parameter	Con	ditions	Min	Тур	Max	Unit
N/	Reference Voltage		< 10)/	1.238	1.250	1.262	V
V_{REF}	Reference voltage	1.5V ≤ V _{IN} -V _{OUT} ≤	S 10V	1.225	1.250	1.275	v
V _{RLINE}	Line Regulation	1.5V ≤ V _{IN} -V _{OUT} ≤	< 10\/	_	0.001	0.1	%
V RLINE		1.5V = VIN-VOUL	\$ 100	—	—	0.2	,0
V _{RLOAD}	Load Regulation	$V_{IN} = V_{OUT}+2V$	1mA ≤ I _{OUT} ≤ 1A	—	0.4	1.0	%
	Dropout Voltage	$\Delta V_{REF} = 1\%,$	SOT223	—	1.2	1.3	V
V _{DROP}	Diopout Voltage	I _{OUT} = 0.8A TO252-2		—	1.3	1.4	V
ILIMIT	Current Limit	—	—		1.35	—	А
_	Adjust Pin Current	—		_	60	120	μA
—	Adjust Pin Current Change	1.5 ≤ (V _{IN} -V _{OUT}) ≤ 10V		_	0.2	5	μA
_	Minimum Load Current	1.5 ≤ (V _{IN} -V _{OUT}) :	≤ 10V	_	1.7	5	mA
PSRR	Ripple Rejection	f = 120Hz, C _{OUT} = (V _{IN} -V _{OUT}) = 3V,		_	70	_	dB
_	Temperature Stability	—		—	0.5	_	%
_	RMS Output Noise (% of VOUT)	T _A = +25°C, 10Hz	z≤f≤10KHz	_	0.003	_	%
_	Thermal Shutdown	Junction Temperature		_	+160	—	°C
_	Thermal Shutdown Hysteresis	· · · · · · · · · · · · · · · · · · ·		_	+16		°C
	Thermal Desister as			_		_	
θյς	Thermal Resistance (Junction to Case)	SOT223	SOT223		15	—	°C/W
		TO252-2		_	10	_	



Electrical Characteristics AZ1117I-1.2 (Cont.)

(Operating Conditions: $V_{IN} \le 10V$, $I_{OUT} = 10$ mA, $T_J = +25$ °C, unless otherwise specified. (P \le maximum power dissipation). Limits appearing in **Boldface** type apply over the entire junction temperature range for operation, -40°C to +125°C.)

Symbol	Parameter	Con	ditions	Min	Тур	Max	Unit
N/			< 10) (1.176	1.2	1.224	V
V _{OUT}	Output Voltage	1.5V ≤ V _{IN} -V _{OUT} ≤	≤ 10V	1.152	1.2	1.248	v
M	Line Regulation	1 5/ 2 // //	< 10)/	—	0.5	6	mV
VRLINE		1.5V ≤ V _{IN} -V _{OUT} ≤ 10V		—	—	10	mv
V _{RLOAD}	Load Regulation	$V_{IN} = V_{OUT}+2V$	1mA ≤ I _{OUT} ≤ 1A	—	2	15	mV
<i>\</i> /	Dropout Vieltogo	$\Delta V_{OUT} = 1\%$,	SOT223	—	1.2	1.3	V
Vdrop	Dropout Voltage	$I_{OUT} = 0.8A$	TO252-2	—	1.3	1.4	V
LIMIT	Current Limit	—		1	1.35	_	А
lq	Quiescent Current	$I_{OUT} = 0$	I _{OUT} = 0		4	6	mA
PSRR	Ripple Rejection	$f = 120Hz, C_{OUT} = (V_{IN}-V_{OUT}) = 3V,$	•	_	70	_	dB
_	Temperature Stability	—		—	0.5	_	%
—	RMS Output Noise (% of VOUT)	T _A = +25°C, 10Hz	z ≤ f ≤ 10KHz	—	0.003	_	%
_	Thermal Shutdown	Junction Tempera	ature	—	+160		°C
_	Thermal Shutdown Hysteresis	—	—		+16	_	°C
	Thermal Resistance	0.07000		—		_	
θ」С	(Junction to Case)	SO1223	SOT223		15	_	°C/W
		TO252-2	TO252-2		10	_	

Electrical Characteristics AZ1117I-1.5 (Cont.)

(Operating Conditions: $V_{IN} \le 10V$, $I_{OUT} = 10$ mA, $T_J = +25$ °C, unless otherwise specified. (P \le maximum power dissipation). Limits appearing in **Boldface** type apply over the entire junction temperature range for operation, -40°C to +125°C.)

Symbol	Parameter	Con	ditions	Min	Тур	Max	Unit
N/	Output Maltana		401	1.485	1.5	1.515	V
V _{OUT}	Output Voltage	1.5V ≤ V _{IN} -V _{OUT} ≤	≤ 10V	1.47	1.5	1.53	V
M	Line Regulation		: 10)/	_	0.5	6	mV
V _{RLINE}	Line Regulation	$1.5V \le V_{IN} - V_{OUT} \le 10V$		_	_	10	mv
V _{RLOAD}	Load Regulation	$V_{IN} = V_{OUT}+2V$	1mA ≤ I _{OUT} ≤ 1A	—	2	15	mV
M	Dropout Voltage	$\Delta V_{OUT} = 1\%,$	SOT223	_	1.2	1.3	V
V _{DROP}	Dropout Voltage	$I_{OUT} = 0.8A$	TO252-2	_	1.3	1.4	V
I _{LIMIT}	Current Limit	—		1	1.35		А
lq	Quiescent Current	$I_{OUT} = 0$		_	4	6	mA
PSRR	Ripple Rejection	$f = 120Hz, C_{OUT} = 22\mu F$ (V _{IN} -V _{OUT}) = 3V, I _{OUT} = 300mA			70		dB
TORK				—	70	_	uВ
_	Temperature Stability	—		—	0.5		%
—	RMS Output Noise (% of V _{OUT})	T _A = +25°C, 10Hz	z ≤ f ≤ 10KHz	—	0.003	—	%
_	Thermal Shutdown	Junction Tempera	ature	_	+160	_	°C
	Thermal Shutdown Hysteresis	—		—	+16	_	°C
	Thermal Desistance	0.0.7000		_		_	
θJC	Thermal Resistance (Junction to Case)	501223	SOT223		15	_	°C/M
		TO252-2	TO252-2		10	_	



Electrical Characteristics AZ1117I-1.8 (Cont.)

(Operating Conditions: $V_{IN} \le 10V$, $I_{OUT} = 10$ mA, $T_J = +25$ °C, unless otherwise specified. (P \le maximum power dissipation). Limits appearing in **Boldface** type apply over the entire junction temperature range for operation, -40°C to +125°C.)

Symbol	Parameter	Con	ditions	Min	Тур	Max	Unit
N/			401/	1.782	1.8	1.818	V
V _{OUT}	Output Voltage	1.5V ≤ V _{IN} -V _{OUT} ≤	≤ 10V	1.764	1.8	1.836	V
M	Line Regulation	$1 E V \leq V m V = m$: 10\/	—	0.5	6	mV
V _{RLINE}		1.5V ≤ V _{IN} -V _{OUT} ≤ 10V		—	—	10	IIIV
V _{RLOAD}	Load Regulation	$V_{IN} = V_{OUT} + 2V$	1mA ≤ I _{OUT} ≤ 1A	—	2	15	mV
	Dranout Voltage	$\Delta V_{OUT} = 1\%,$	SOT223	—	1.2	1.3	V
VDROP	Dropout Voltage	$I_{OUT} = 0.8A$	TO252-2	—	1.3	1.4	V
ILIMIT	Current Limit	—	—		1.35	—	А
lq	Quiescent Current	I _{OUT} = 0	I _{OUT} = 0		4	6	mA
PSRR	Ripple Rejection	f = 120Hz, C _{OUT} = (V _{IN} -V _{OUT}) = 3V, I	•	_	70	_	dB
_	Temperature Stability	—		—	0.5	_	%
—	RMS Output Noise (% of V _{OUT})	T _A = +25°C, 10Hz	: ≤ f ≤ 10KHz	—	0.003	_	%
_	Thermal Shutdown	Junction Tempera	ature	—	+160		°C
_	Thermal Shutdown Hysteresis			—	+16	_	°C
	Thermal Desistance	0.07000		—		_	
θJC	Thermal Resistance (Junction to Case)	SO1223	SOT223		15	_	°C/W
		TO252-2	TO252-2		10	_	

Electrical Characteristics AZ1117I-2.5 (Cont.)

(Operating Conditions: $V_{IN} \le 10V$, $I_{OUT} = 10$ mA, $T_J = +25$ °C, unless otherwise specified. (P \le maximum power dissipation). Limits appearing in **Boldface** type apply over the entire junction temperature range for operation, -40°C to +125°C.)

Symbol	Parameter	Con	ditions	Min	Тур	Max	Unit
M				2.475	2.5	2.525	V
V _{OUT}	Output Voltage	1.5V ≤ V _{IN} -V _{OUT} ≤	≤ 10V	2.455	2.5	2.545	v
M	Line Regulation		< 10\/	—	0.5	6	mV
V _{RLINE}	Line Regulation	$1.5V \le V_{IN} - V_{OUT} \le 10V$		—	—	10	mv
V _{RLOAD}	Load Regulation	$V_{IN} = V_{OUT}+2V$	1mA ≤ I _{OUT} ≤ 1A	—	2	15	mV
V	Dropout Voltage	$\Delta V_{OUT} = 1\%,$	SOT223	—	1.2	1.3	V
V _{DROP}	Diopout voltage	$I_{OUT} = 0.8A$	TO252-2	—	1.3	1.4	V
ILIMIT	Current Limit	—		1	1.35	—	А
lq	Quiescent Current	$I_{OUT} = 0$		—	4	6	mA
PSRR	Pipple Poinction	$ f = 120Hz, C_{OUT} = 22\mu F \\ (V_{IN}-V_{OUT}) = 3V, I_{OUT} = 300mA $			70		dB
FORK	Ripple Rejection			_	70	_	uБ
	Temperature Stability	—		—	0.5	_	%
—	RMS Output Noise (% of V _{OUT})	T _A = +25°C, 10Hz	z ≤ f ≤ 10KHz	—	0.003	—	%
_	Thermal Shutdown	Junction Tempera	ature	—	+160	_	°C
	Thermal Shutdown Hysteresis	—		—	+16	—	°C
	Thermel Desistence	0.0.7000		_		—	
$\theta_{\rm JC}$	Thermal Resistance (Junction to Case)	S01223	SOT223		15	_	°C/W
		TO252-2	TO252-2		10	_	



Electrical Characteristics AZ1117I-3.3 (Cont.)

(Operating Conditions: $V_{IN} \le 10V$, $I_{OUT} = 10$ mA, $T_J = +25$ °C, unless otherwise specified. (P \le maximum power dissipation). Limits appearing in **Boldface** type apply over the entire junction temperature range for operation, -40°C to +125°C.)

Symbol	Parameter	Con	ditions	Min	Тур	Max	Unit
N/			< 10\/	3.267	3.3	3.333	V
V _{OUT}	Output Voltage	1.5V ≤ V _{IN} -V _{OUT}	- <u>S</u> 10V	3.235	3.3	3.365	v
\/	Line Regulation	$1.5V \leq V \leq V \leq 1$	< 10\/		0.5	6	mV
VRLINE		1.5V S VIN-VOUI	$1.5V \le V_{IN} - V_{OUT} \le 10V$			10	IIIV
V _{RLOAD}	Load Regulation	$V_{IN} = V_{OUT} + 2V$	1mA ≤ I _{OUT} ≤ 1A	—	2	15	mV
\/	Dropout Voltage	$\Delta V_{OUT} = 1\%$,	SOT223	_	1.2	1.3	V
Vdrop	Diopout voltage	$I_{OUT} = 0.8A$	TO252-2	—	1.3	1.4	V
ILIMIT	Current Limit	—		1	1.35	—	А
lq	Quiescent Current	$I_{OUT} = 0$	$I_{OUT} = 0$		4	6	mA
PSRR	Ripple Rejection	f = 120Hz, C _{OUT}	f = 120Hz, C _{OUT} = 22µF		70	—	dB
FORK	Ripple Rejection	$(V_{IN}-V_{OUT}) = 3V, I_{OUT} = 300 \text{mA}$		_	70		uБ
_	Temperature Stability	—		—	0.5	_	%
_	RMS Output Noise (% of VOUT)	T _A = +25⁰C, 10⊦	lz ≤ f ≤ 10KHz	_	0.003	—	%
	Thermal Shutdown	Junction Tempe	erature	_	+160	_	°C
	Thermal Shutdown Hysteresis	—	-		+16	_	°C
	Thermal Resistance	007000					
θ」С	(Junction to Case)	501223	SOT223		15	—	°C/W
		TO252-2	TO252-2		10	—	

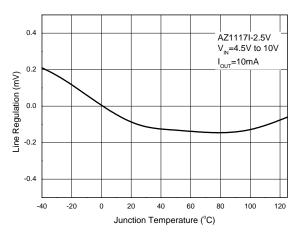
Electrical Characteristics AZ1117I-5.0 (Cont.)

(Operating Conditions: $V_{IN} \le 10V$, $I_{OUT} = 10$ mA, $T_J = +25$ °C, unless otherwise specified. (P \le maximum power dissipation). Limits appearing in **Boldface** type apply over the entire junction temperature range for operation, -40°C to +125°C.)

Symbol	Parameter	Cond	ditions	Min	Тур	Max	Unit
N/			401/	4.950	5.0	5.050	V
Vout	Output Voltage	1.5V ≤ V _{IN} -V _{OUT} ≤	10V	4.900	5.0	5.100	v
M	Line Regulation	1 EV/ < V/ V/	· 10\/	—	0.5	6	mV
V _{RLINE}		$1.5V \le V_{IN} - V_{OUT} \le 10V$		—	_	10	
V _{RLOAD}	Load Regulation	$V_{IN} = V_{OUT} + 2V$	1mA ≤ I _{OUT} ≤ 1A	—	2	15	mV
\/	Dropout Voltage	$\Delta V_{OUT} = 1\%,$	SOT223	—	1.2	1.3	V
V _{DROP}		I _{OUT} = 0.8A	TO252-2	—	1.3	1.4	V
ILIMIT	Current Limit	—	—		1.35	—	А
ΙQ	Quiescent Current	$I_{OUT} = 0$	$I_{OUT} = 0$		4	6	mA
PSRR	Ripple Rejection	$f = 120Hz, C_{OUT} = 22\mu F$		_	70	_	dB
1 OKK		$(V_{IN}-V_{OUT}) = 3V, I$	$(V_{IN}-V_{OUT}) = 3V, I_{OUT} = 300mA$		10		uр
	Temperature Stability	—		_	0.5	—	%
—	RMS Output Noise (% of V_{OUT})	T _A = +25°C, 10Hz	: ≤ f ≤ 10KHz	—	0.003	—	%
_	Thermal Shutdown	Junction Tempera	Junction Temperature		+160	_	°C
_	Thermal Shutdown Hysteresis	—		—	+16	—	°C
θ」С	Thermal Resistance	SOT223		—	15	—	°C/W
0.0	(Junction to Case)	TO252-2	TO252-2		10	_	0,00



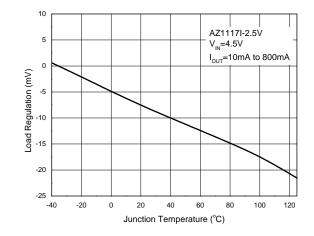
Performance Characteristics



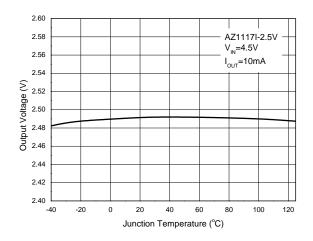
Line Regulation vs. Temperature

Load Regulation vs. Temperature

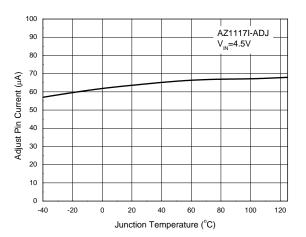
AZ1117I



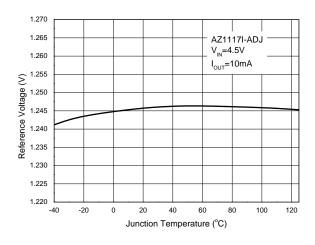
Output Voltage vs. Temperature



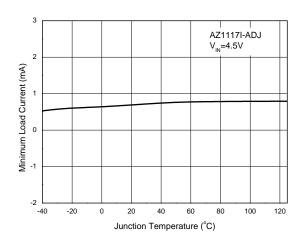
Adjust Pin Current vs. Temperature



Reference Voltage vs. Temperature



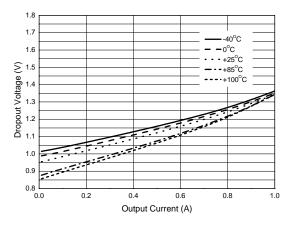
Minimum Load Current vs. Temperature



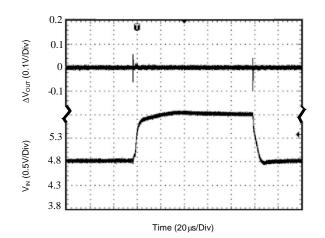


Performance Characteristics (Cont.)

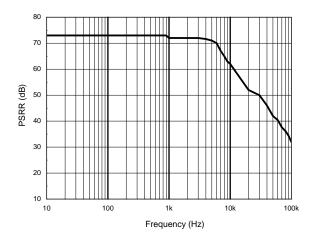
Dropout Voltage vs. Output Current



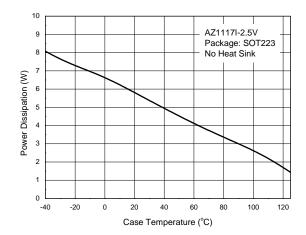
Line Transient Response



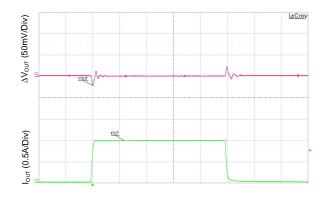




Power Dissipation vs. Temperature

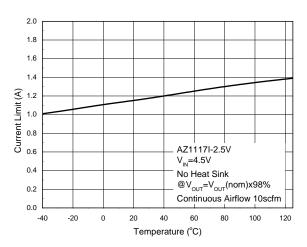


Load Transient Response



Time (10 µs/Div)

Current Limit vs. Temperature

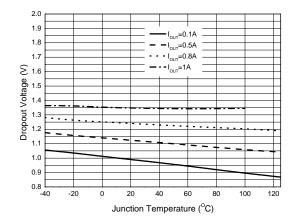


AZ1117I Document number: DS38213 Rev. 1 - 2

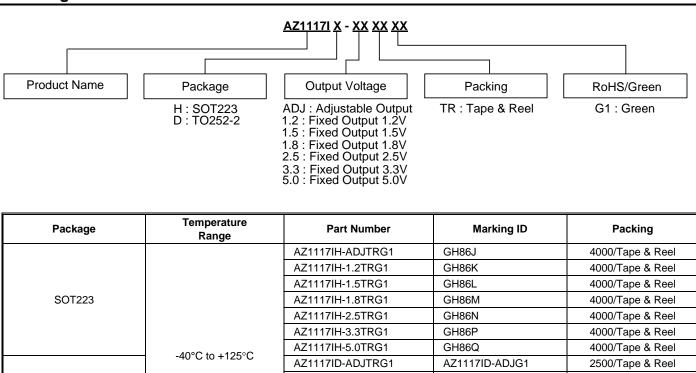


Performance Characteristics (Cont.)

Dropout Voltage vs. Temperature





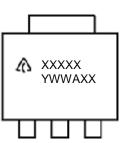


		//2111/11/2.011(01	OFICOIN	4000/ Tupe a Reel
		AZ1117IH-3.3TRG1	GH86P	4000/Tape & Reel
	-40°C to +125°C	AZ1117IH-5.0TRG1	GH86Q	4000/Tape & Reel
	-40 C 10 + 125 C	AZ1117ID-ADJTRG1	AZ1117ID-ADJG1	2500/Tape & Reel
		AZ1117ID-1.2TRG1	AZ1117ID-1.2G1	2500/Tape & Reel
		AZ1117ID-1.5TRG1	AZ1117ID-1.5G1	2500/Tape & Reel
TO252-2		AZ1117ID-1.8TRG1	AZ1117ID-1.8G1	2500/Tape & Reel
		AZ1117ID-2.5TRG1	AZ1117ID-2.5G1	2500/Tape & Reel
		AZ1117ID-3.3TRG1	AZ1117ID-3.3G1	2500/Tape & Reel
		AZ1117ID-5.0TRG1	AZ1117ID-5.0G1	2500/Tape & Reel

Marking Information

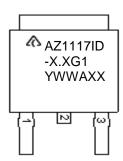
(1) SOT223





(2) TO252-2

(Top View)



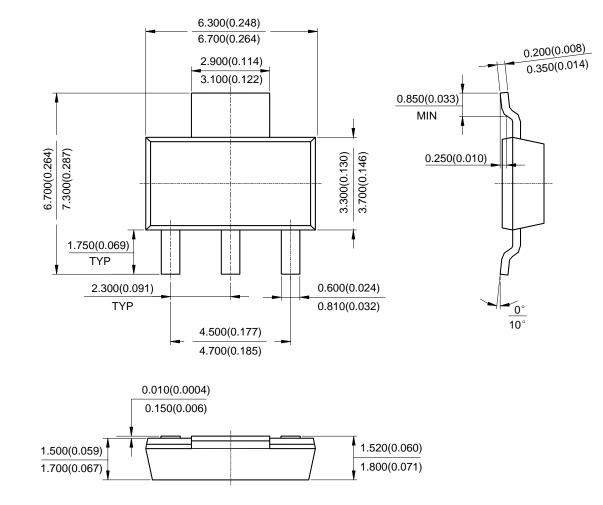
First Line: Logo and Marking ID (See Ordering Information) Second Line: Date Code Y: Year WW: Work Week of Molding A: Assembly House Code XX: 7th and 8th Digits of Batch Number

First and Second Lines: Logo and Marking ID (See Ordering Information) Third Line: Date Code Y: Year WW: Work Week of Molding A: Assembly House Code XX: 7th and 8th Digits of Batch Number



Package Outline Dimensions (All dimensions in mm.)

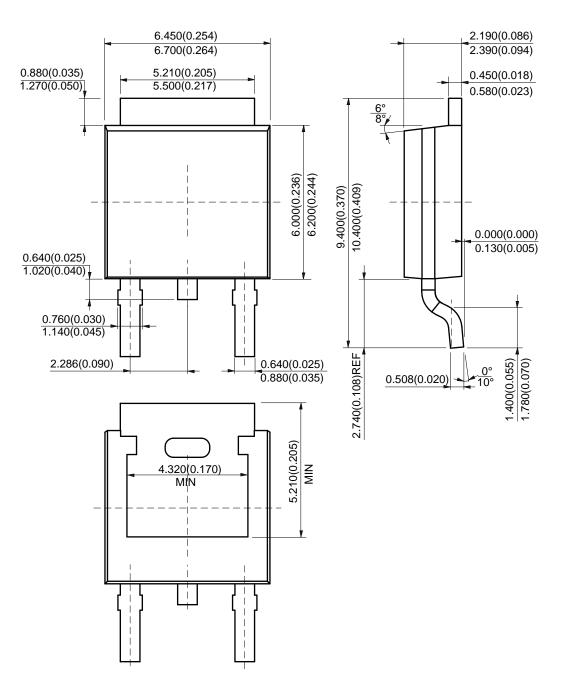
(1) Package Type: SOT223





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

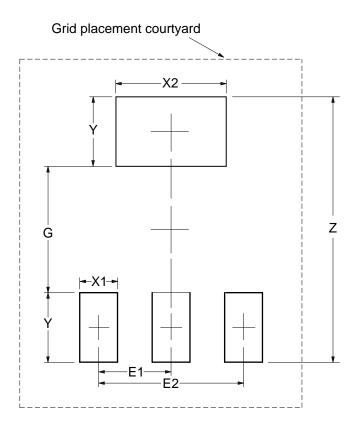
(2) Package Type: TO252-2 (5)





Suggested Pad Layout

(1) Package Type: SOT223

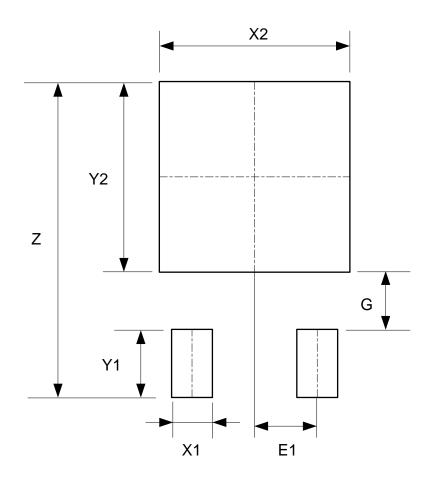


Vimonoiono	Z	G	X1	X2	Y	E1	E2
Dimensions	(mm)/(inch)						
Value	8.400/0.331	4.000/0.157	1.200/0.047	3.500/0.138	2.200/0.087	2.300/0.091	4.600/0.181



Suggested Pad Layout (Cont.)

(2) Package Type: TO252-2 (5)



ſ	Dimensions	Z	X1	X2=Y2	Y1	G	E1
Dimensions	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	
ſ	Value	11.600/0.457	1.500/0.059	7.000/0.276	2.500/0.098	2.100/0.083	2.300/0.091



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