

1A ULTRA LOW DROPOUT LINEAR REGULATOR

Description

The AZ2940 is a low dropout three-terminal regulator with a typical dropout of 280mV at 1A output current.

The AZ2940 provides current limit and thermal shutdown. On-chip thermal shutdown provides protection against any combination of high current and ambient temperature that would create excessive junction temperatures.

The AZ2940 has 1.2V, 1.8V, 2.5V, 3.3V and 5.0V versions.

The AZ2940 series is available in the industry standard TO-220-3, TO-220F-3, TO-263-3, TO-252-2 (3), TO-252-2 (4), TO-252-2 (5) and SOT-223 power packages. (Detailed information please refer to pages 13, 14)

Applications

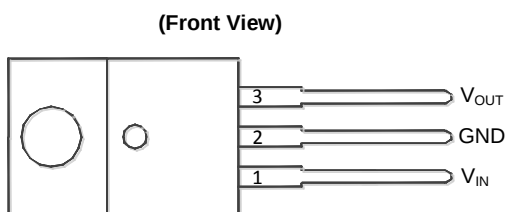
- LCD TV
- Set Top Box
- LCD Monitor
- SMPS Post Regulator
- Laptop, Palmtop and Notebook
- Portable Instrumentation
- USB Power Supply

- Notes:
1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied.
 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.

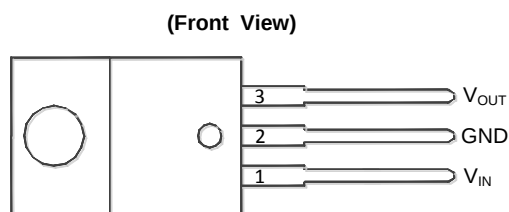
Features

- Minimum Guaranteed Output Current: 1A
- Dropout Voltage at $I_{OUT} = 1A$: 280mV Typ. (Except 1.2V and 1.8V Versions)
- Output Accuracy: $\pm 1\%$
- Low Ground Current
- Internal Current Limit and Thermal Protection
- Reversed-battery and Reversed-lead Insertion Protection
- Fast Transient Response
- TO-220-3, TO-263-3, TO-252-2 (3), TO-252-2 (4), TO-252-2 (5)
 - **Lead-Free Finish; RoHS Compliant (Notes 1 & 2)**
- Available in "Green" Packages: TO-220-3, TO-220F-3, TO-263-3, TO-252-2 (3), TO-252-2 (4), TO-252-2 (5) and SOT-223
 - **Lead-Free Finish; RoHS Compliant (Notes 1 & 2)**
 - **Halogen and Antimony Free. "Green" Device (Note 3)**

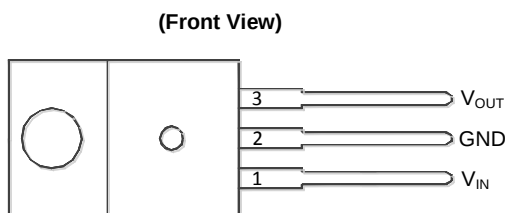
Pin Assignments



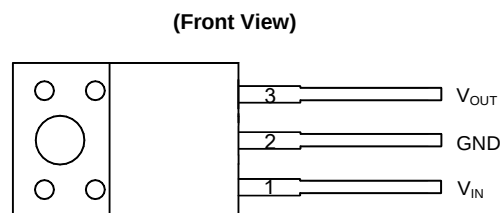
TO-220-3 (Option 1)



TO-220-3 (Option 2)

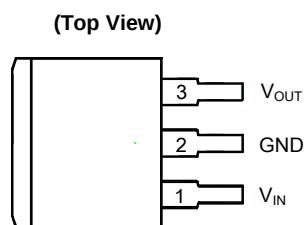


TO-220-3 (Option 3)

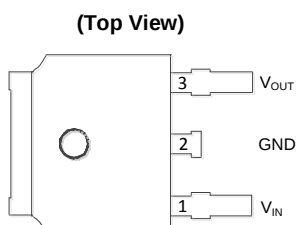


TO-220F-3

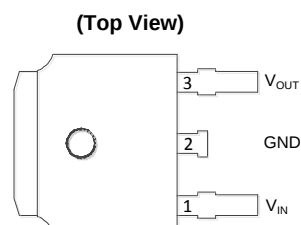
Pin Assignments (Cont.)



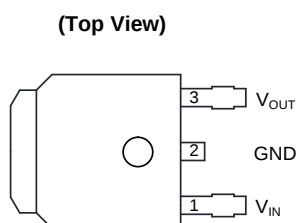
TO-263-3



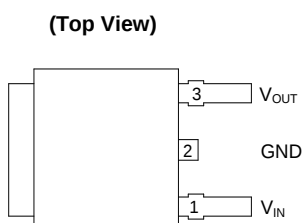
TO-252-2 (3) (Option 1)



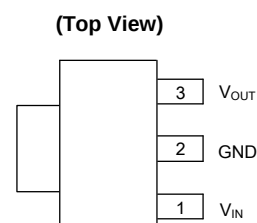
TO-252-2 (3) (Option 2)



TO-252-2 (4)

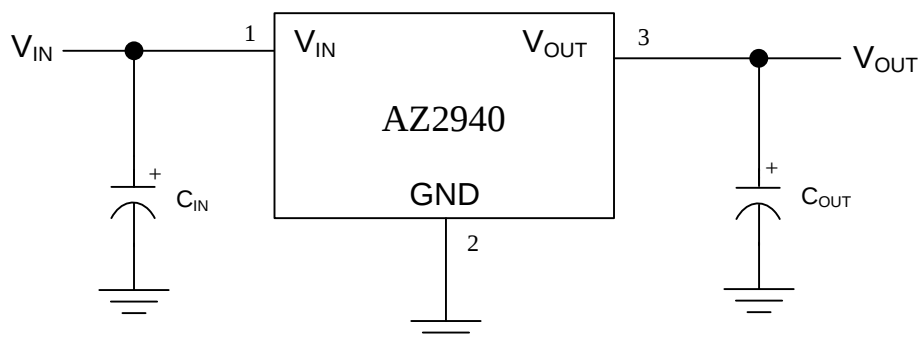


TO-252-2 (5)



SOT-223

Typical Applications Circuit (Note 4)

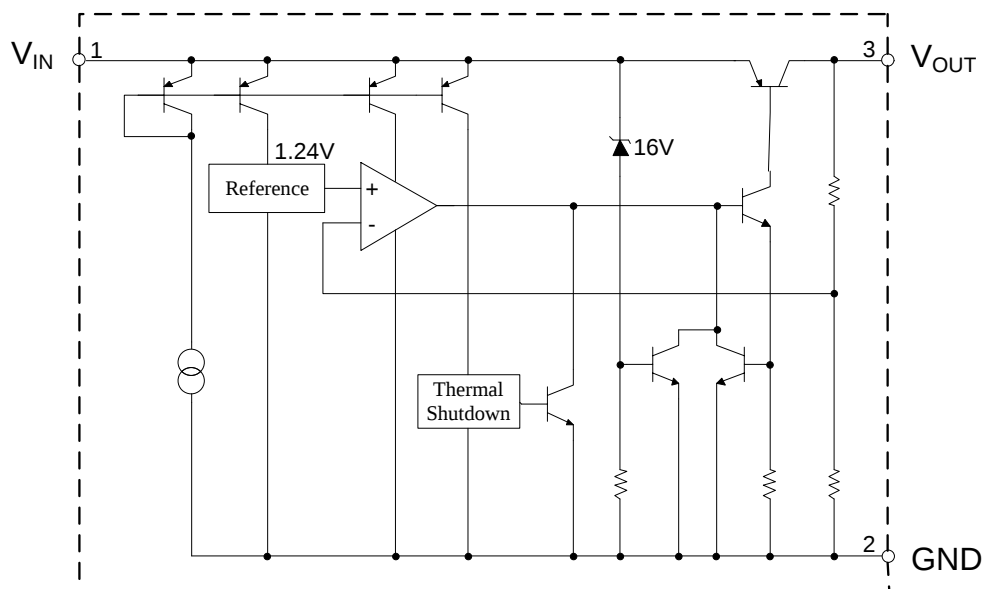


Note 4: C_{IN} is required if regulator is located far from power supply filter and is recommended to be $0.47\mu F$ or greater. To maintain stability, C_{OUT} is recommended to be $2.2\mu F$ or greater. The ESR of this capacitor is critical, please see curve.

Pin Description

Pin Number	Pin Name	Function
1	V_{IN}	Unregulated Input
2	GND	Ground pin. This pin and TAB are internally connected
3	V_{OUT}	Regulated Output

Functional Block Diagram



Absolute Maximum Ratings (Note 5)

Symbol	Parameter	Rating		Unit
V_{IN}	Input Voltage	16		V
T_J	Operating 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 (Junction to Ambient)	TO-220-3/TO-220F-3	60	°C/W
		TO-263-3	60	
		TO-252-2 (3)/(4)/(5)	100	
		SOT-223	120	
ESD	ESD (Human Body Model)	5000		V
ESD	ESD (Machine Model)	300		V

Note 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.

Recommended Operating Conditions

Symbol	Parameter	Min	Max	Unit
V_{IN}	Input Voltage	2.5	13.2	V
T_J	Operating Junction Temperature	-40	+125	°C

Electrical Characteristics

AZ2940-1.2 Electrical Characteristics

(Operating Conditions: $V_{IN} = 2.5V$, $I_{OUT} = 10mA$, $C_{IN} = 10\mu F$, $C_{OUT} = 10\mu F$, $T_J = +25^\circ C$, unless otherwise specified. The **Boldface** applies over $-40^\circ C$ to $+125^\circ C$)

Symbol	Parameter	Condition		Min	Typ	Max	Unit
V _{OUT}	Output Voltage	I _{OUT} = 10mA		1.188	1.2	1.212	V
		10mA ≤ I _{OUT} ≤ 1A, 2.5V ≤ V _{IN} ≤ 13.2V		1.176	1.2	1.224	V
V _{RLINE}	Line Regulation	I _{OUT} = 10mA, 2.5V ≤ V _{IN} ≤ 13.2V		–	3.6	18	mV
V _{RLOAD}	Load Regulation	V _{IN} = 2.5V, 10mA ≤ I _{OUT} ≤ 1A		–	5.4	27	mV
ΔV _{OUT} /ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 10mA		–	–	180	μV/°C
I _{GND}	Ground Current	V _{IN} = 2.5V	I _{OUT} = 750mA	–	12	25	mA
			I _{OUT} = 1A	–	18	–	mA
I _{SC}	Short Circuit Current	V _{OUT} = 0V (Note 6)		1.5	2.2	–	A
I _{LOAD (MIN)}	Minimum Load Current	–		–	1	5	mA
–	Output Noise Voltage (rms)	10Hz to 100kHz, I _{OUT} = 100mA, C _{OUT} = 10μF		–	400	–	μV
θ _{JC}	Thermal Resistance	TO-252-2 (3)/(4)/(5)		–	7.8	–	°C/W
		SOT-223		–	29.7	–	

Note 6: $V_{IN} = V_{OUT(NOMINAL)} + 1V$.

Electrical Characteristics (Cont.)

AZ2940-1.8 Electrical Characteristics

(Operating Conditions: $V_{IN} = 2.8V$, $I_{OUT} = 10mA$, $C_{IN} = 10\mu F$, $C_{OUT} = 10\mu F$, $T_J = +25^{\circ}C$, unless otherwise specified. The **Boldface** applies over -40°C to +125°C)

Symbol	Parameter	Condition		Min	Typ	Max	Unit
V _{OUT}	Output Voltage	I _{OUT} = 10mA		1.782	1.8	1.818	V
		10mA ≤ I _{OUT} ≤ 1A, 2.8V ≤ V _{IN} ≤ 13.2V		1.764	1.8	1.836	V
V _{RLINE}	Line Regulation	I _{OUT} = 10mA, 2.8V ≤ V _{IN} ≤ 13.2V		–	3.6	18	mV
V _{RLOAD}	Load Regulation	V _{IN} = 2.8V, 10mA ≤ I _{OUT} ≤ 1A		–	5.4	27	mV
ΔV _{OUT} /ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 10mA		–	36	180	μV/°C
V _{DROP}	Dropout Voltage (Note 7)	ΔV _{OUT} = 1%	I _{OUT} = 100mA	–	290	500	mV
			I _{OUT} = 1A	–	330	750	mV
I _{GND}	Ground Current	V _{IN} = 2.8V	I _{OUT} = 750mA	–	12	25	mA
			I _{OUT} = 1A	–	18	–	mA
I _{SC}	Short Circuit Current	V _{OUT} = 0V (Note 6)		1.5	2.2	–	A
I _{LOAD (MIN)}	Minimum Load Current	–		–	1	5	mA
–	Output Noise Voltage (rms)	10Hz to 100kHz, I _{OUT} = 100mA, C _{OUT} = 10μF		–	400	–	μV
θ _{JC}	Thermal Resistance	TO-252-2 (3)/(4)/(5)		–	7.8	–	°C/W
		SOT-223		–	29.7	–	

Notes: 6. $V_{IN} = V_{OUT(NOMINAL)} + 1V$.

7. Dropout voltage is defined as the input-to-output differential when the output voltage drops to 99% of its nominal value which is measured at $V_{OUT} + 1V$ applied to V_{IN} . In application, V_{IN} should be no less than 2.5V.

Electrical Characteristics (Cont.)

AZ2940-2.5 Electrical Characteristics

(Operating Conditions: $V_{IN} = 3.5V$, $I_{OUT} = 10mA$, $C_{IN} = 10\mu F$, $C_{OUT} = 10\mu F$, $T_J = +25^\circ C$, unless otherwise specified. The **Boldface** applies over $-40^\circ C$ to $+125^\circ C$)

Symbol	Parameter	Condition		Min	Typ	Max	Unit
V _{OUT}	Output Voltage	I _{OUT} = 10mA		2.475	2.5	2.525	V
		10mA ≤ I _{OUT} ≤ 1A, 3.5V ≤ V _{IN} ≤ 13.2V		2.45	2.5	2.55	V
V _{RLINE}	Line Regulation	I _{OUT} = 10mA, 3.5V ≤ V _{IN} ≤ 13.2V		–	5.0	25	mV
V _{RLOAD}	Load Regulation	V _{IN} = 3.5V, 10mA ≤ I _{OUT} ≤ 1A		–	7.5	37.5	mV
ΔV _{OUT} /ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 10mA		–	50	250	μV/°C
V _{DROP}	Dropout Voltage (Note 8)	ΔV _{OUT} = 1%	I _{OUT} = 100mA	–	70	200	mV
			I _{OUT} = 1A	–	280	550	mV
I _{GND}	Ground Current	V _{IN} = 3.5V	I _{OUT} = 750mA	–	12	25	mA
			I _{OUT} = 1A	–	18	–	mA
I _{SC}	Short Circuit Current	V _{OUT} = 0V (Note 6)		1.5	2.2	–	A
I _{LOAD (MIN)}	Minimum Load Current	–		–	1	5	mA
–	Output Noise Voltage (rms)	10Hz to 100kHz, I _{OUT} = 100mA, C _{OUT} = 10μF		–	400	–	μV
θ _{JC}	Thermal Resistance	TO-252-2 (3)/(4)/(5)		–	7.8	–	°C/W
		SOT-223		–	29.7	–	

Notes: 6. $V_{IN} = V_{OUT(NOMINAL)} + 1V$.

8. Dropout voltage is defined as the input-to-output differential when the output voltage drops to 99% of its nominal value which is measured at $V_{OUT} + 1V$ applied to V_{IN} .

Electrical Characteristics (Cont.)

AZ2940-3.3 Electrical Characteristics

(Operating Conditions: $V_{IN} = 4.3V$, $I_{OUT} = 10mA$, $C_{IN} = 10\mu F$, $C_{OUT} = 10\mu F$, $T_J = +25^{\circ}C$, unless otherwise specified. The **Boldface** applies over -40°C to +125°C)

Symbol	Parameter	Condition		Min	Typ	Max	Unit
V _{OUT}	Output Voltage	I _{OUT} = 10mA		3.27	3.3	3.33	V
		10mA ≤ I _{OUT} ≤ 1A, 4.3V ≤ V _{IN} ≤ 13.2V		3.23	3.3	3.37	V
V _{RLINE}	Line Regulation	I _{OUT} = 10mA, 4.3V ≤ V _{IN} ≤ 13.2V		–	6.6	33	mV
V _{RLOAD}	Load Regulation	V _{IN} = 4.3V, 10mA ≤ I _{OUT} ≤ 1A		–	9.9	50	mV
ΔV _{OUT} /ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 10mA		–	66	330	μV/°C
V _{DROP}	Dropout Voltage (Note 8)	ΔV _{OUT} = 1%	I _{OUT} = 100mA	–	70	200	mV
			I _{OUT} = 1A	–	280	550	mV
I _{GND}	Ground Current	V _{IN} = 4.3V	I _{OUT} = 750mA	–	12	25	mA
			I _{OUT} = 1A	–	18	–	mA
I _{SC}	Short Circuit Current	V _{OUT} = 0V (Note 6)		1.5	2.2	–	A
I _{LOAD (MIN)}	Minimum Load Current	–		–	1	5	mA
–	Output Noise Voltage (rms)	10Hz to 100kHz, I _{OUT} = 100mA, C _{OUT} = 10μF		–	400	–	μV
θ _{JC}	Thermal Resistance	TO-220-3		–	4.4	–	°C/W
		TO-263-3		–	4.4	–	
		TO-252-2 (3)/(4)/(5)		–	7.8	–	
		SOT-223		–	29.7	–	

Notes: 6. $V_{IN} = V_{OUT(NOMINAL)} + 1V$.

8. Dropout voltage is defined as the input-to-output differential when the output voltage drops to 99% of its nominal value which is measured at $V_{OUT} + 1V$ applied to V_{IN} .

Electrical Characteristics (Cont.)

AZ2940-5.0 Electrical Characteristics

(Operating Conditions: $V_{IN} = 6V$, $I_{OUT} = 10mA$, $C_{IN} = 10\mu F$, $C_{OUT} = 10\mu F$, $T_J = +25^\circ C$, unless otherwise specified. The **Boldface** applies over $-40^\circ C$ to $+125^\circ C$)

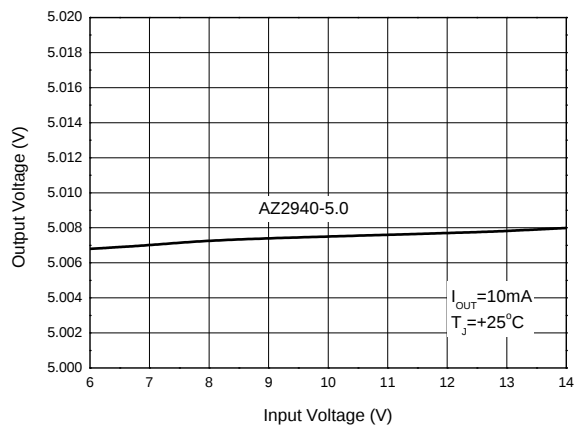
Symbol	Parameter	Condition		Min	Typ	Max	Unit
V _{OUT}	Output Voltage	I _{OUT} = 10mA		4.95	5.0	5.05	V
		10mA ≤ I _{OUT} ≤ 1A, 6V ≤ V _{IN} ≤ 13.2V		4.90	5.0	5.10	V
V _{RLINE}	Line Regulation	I _{OUT} = 10mA, 6V ≤ V _{IN} ≤ 13.2V		–	10	50	mV
V _{RLOAD}	Load Regulation	V _{IN} = 6V, 10mA ≤ I _{OUT} ≤ 1A		–	15	75	mV
ΔV _{OUT} /ΔT	Output Voltage Temperature Coefficient	I _{OUT} = 10mA		–	100	500	μV/°C
V _{DROP}	Dropout Voltage (Note 8)	ΔV _{OUT} = 1%	I _{OUT} = 100mA	–	70	200	mV
			I _{OUT} = 1A	–	280	550	mV
I _{GND}	Ground Current	V _{IN} = 6V	I _{OUT} = 750mA	–	12	25	mA
			I _{OUT} = 1A	–	18	–	mA
I _{SC}	Short Circuit Current	V _{OUT} = 0V (Note 6)		1.5	2.2	–	A
I _{LOAD (MIN)}	Minimum Load Current	–		–	1	5	mA
–	Output Noise Voltage (rms)	10Hz to 100kHz, I _{OUT} = 100mA, C _{OUT} = 10μF		–	400	–	μV
θ _{JC}	Thermal Resistance	TO-220-3/TO-220F-3		–	4.4	–	°C/W
		TO-263-3		–	4.4	–	
		TO-252-2 (3)/(4)/(5)		–	7.8	–	
		SOT-223		–	29.7	–	

Notes: 6. $V_{IN} = V_{OUT(NOMINAL)} + 1V$.

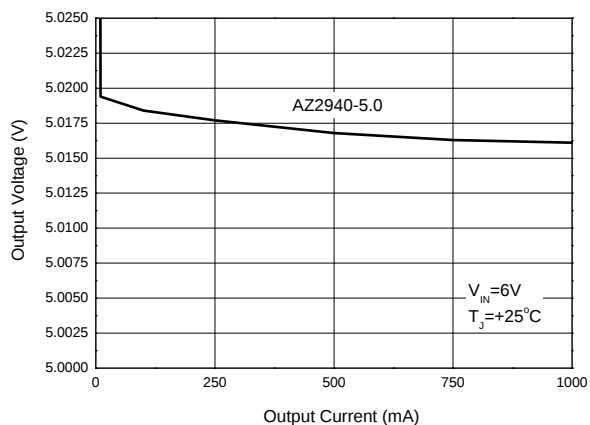
8. Dropout voltage is defined as the input-to-output differential when the output voltage drops to 99% of its nominal value which is measured at $V_{OUT} + 1V$ applied to V_{IN} .

Performance Characteristics

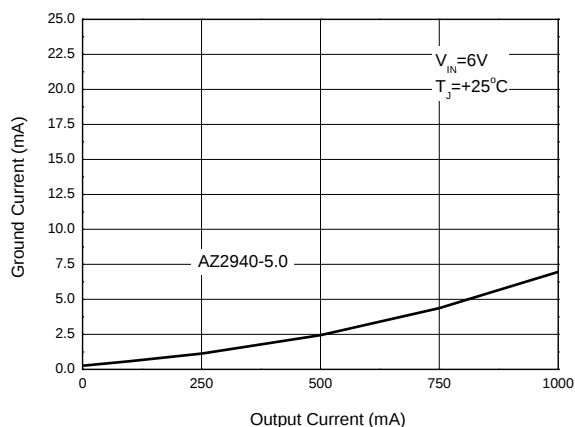
Line Regulation



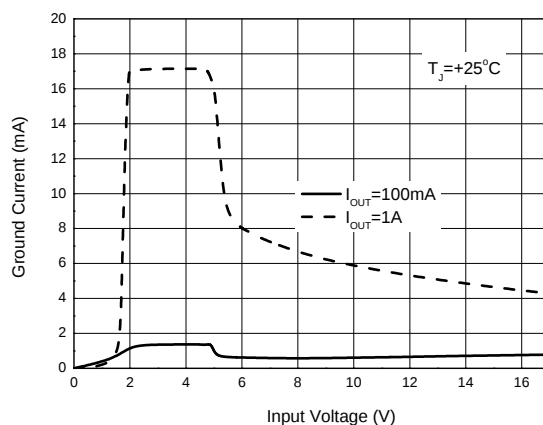
Load Regulation



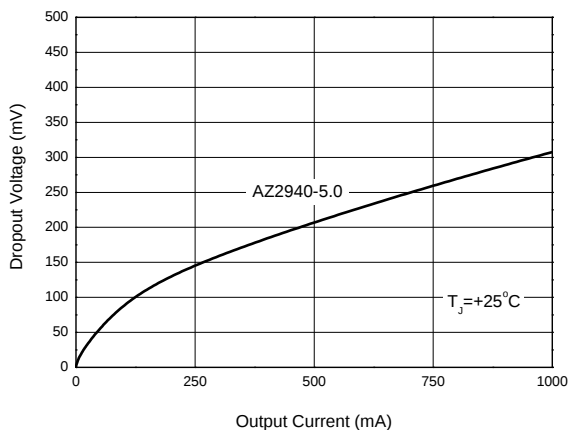
Ground Current vs. Output Current



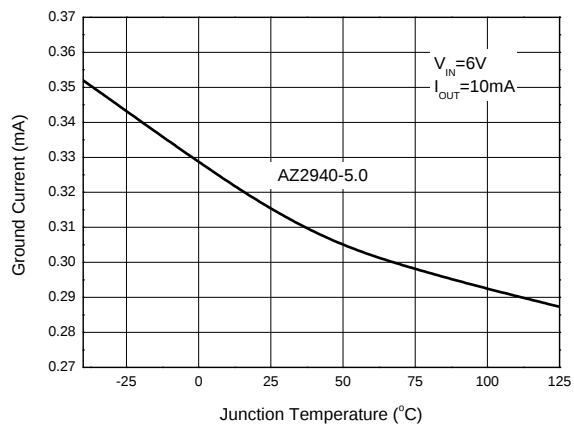
Ground Current vs. Input Voltage



Dropout Voltage vs. Output Current

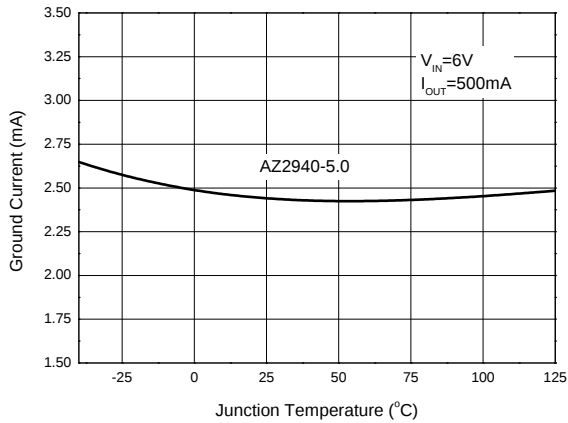


Ground Current vs. Junction Temperature

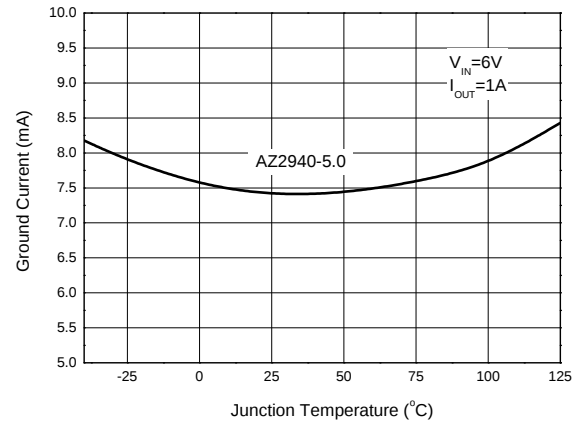


Performance Characteristics (Cont.)

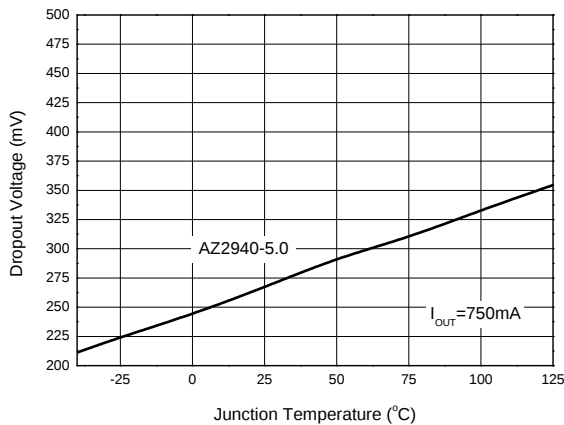
Ground Current vs. Junction Temperature



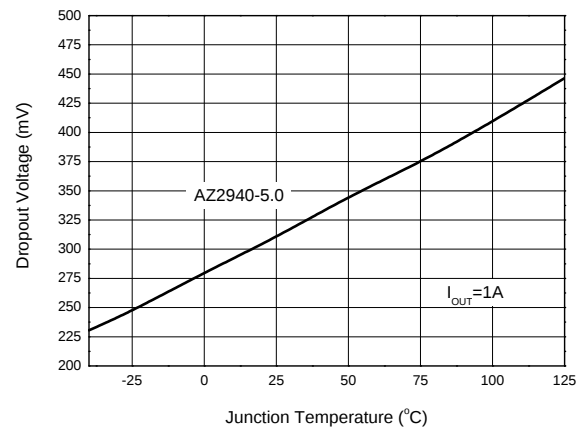
Ground Current vs. Junction Temperature



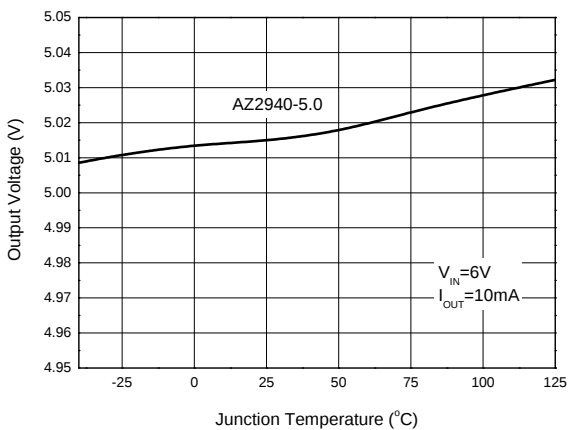
Dropout Voltage vs. Junction Temperature



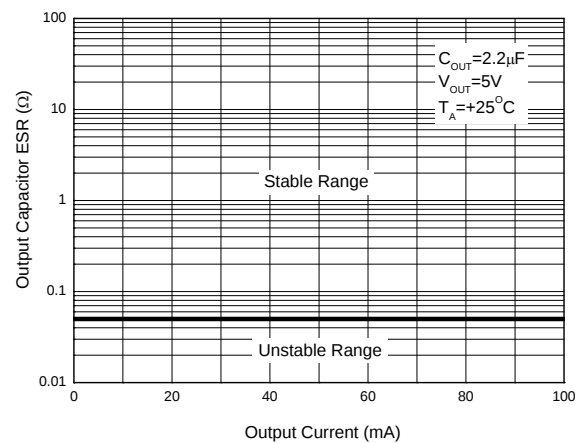
Dropout Voltage vs. Junction Temperature



Output Voltage vs. Junction Temperature

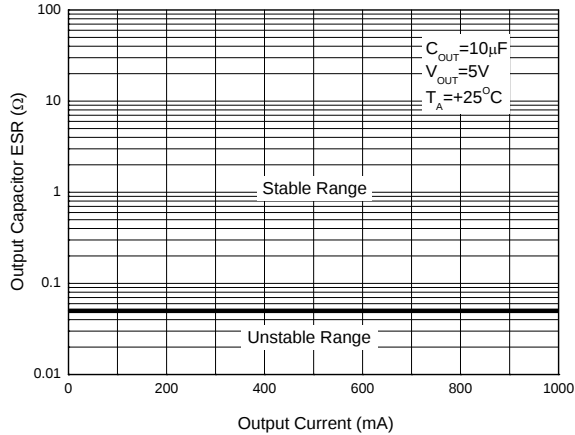


Output Capacitor ESR vs. Output Current

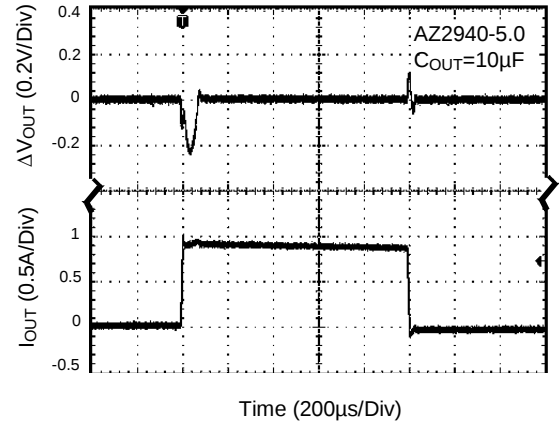


Performance Characteristics (Cont.)

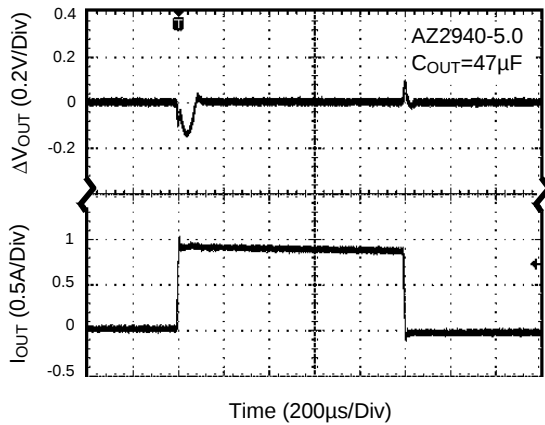
Output Capacitor ESR vs. Output Current



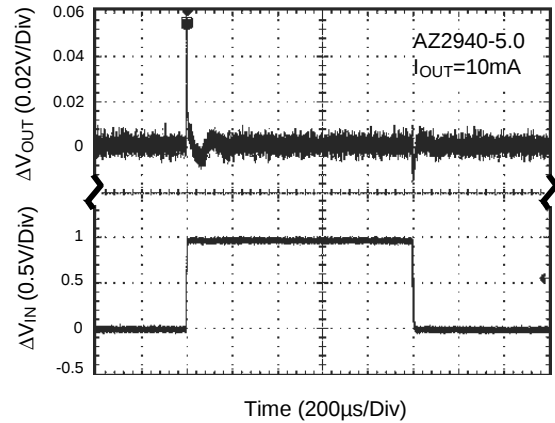
Load Transient



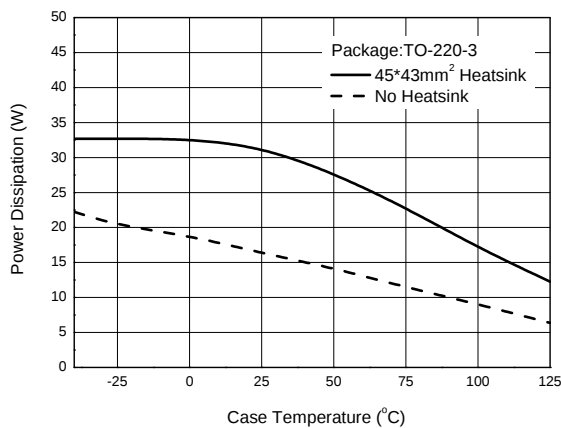
Load Transient



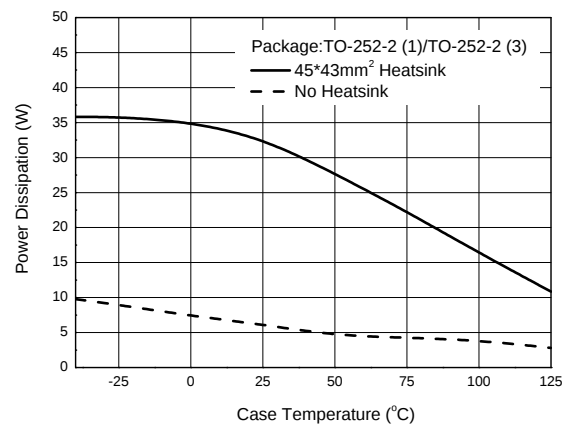
Line Transient



Power Dissipation vs. Case Temperature

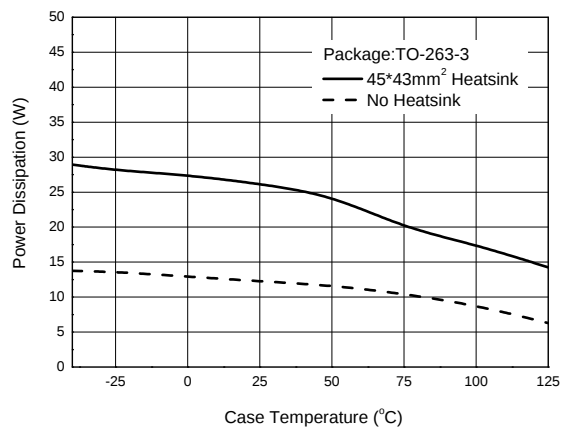


Power Dissipation vs. Case Temperature



Performance Characteristics (Cont.)

Power Dissipation vs. Case Temperature



Ordering Information

AZ2940 XX - XX XX XX

Product Name	Package	Output Voltage	Packing	E1/G1
	T : TO-220-3 TF : TO-220F-3 S : TO-263-3 D : TO-252-2 (3)/ TO-252-2 (4)/ TO-252-2 (5) H : SOT-223	1.2 : Fixed Output 1.2V 1.8 : Fixed Output 1.8V 2.5 : Fixed Output 2.5V 3.3 : Fixed Output 3.3V 5.0 : Fixed Output 5.0V	Blank : Tube TR : Tape & Reel	E1 : RoHS Compliant G1 : Green

	Package	Temperature Range	Part Number		Marking ID		Packing
			RoHS Compliant	Green	RoHS Compliant	Green	
	TO-220-3	-40 to +125°C	AZ2940T-3.3E1	AZ2940T-3.3G1	AZ2940T-3.3E1	AZ2940T-3.3G1	1000/Tube
			AZ2940T-5.0E1	AZ2940T-5.0G1	AZ2940T-5.0E1	AZ2940T-5.0G1	1000/Tube
	TO-220F-3	-40 to +125°C	—	AZ2940TF-5.0G1	—	AZ2940TF-5.0G1	1000/Tube
	TO-263-3	-40 to +125°C	AZ2940S-3.3E1	AZ2940S-3.3G1	AZ2940S-3.3E1	AZ2940S-3.3G1	1000/Tube
			AZ2940S-3.3TRE1	AZ2940S-3.3TRG1	AZ2940S-3.3E1	AZ2940S-3.3G1	2500/Tape & Reel
			AZ2940S-5.0E1	AZ2940S-5.0G1	AZ2940S-5.0E1	AZ2940S-5.0G1	1000/Tube
			AZ2940S-5.0TRE1	AZ2940S-5.0TRG1	AZ2940S-5.0E1	AZ2940S-5.0G1	2500/Tape & Reel
	TO-252-2 (3)/ TO-252-2 (4)/ TO-252-2(5)	-40 to +125°C	—	AZ2940D-1.2G1	—	AZ2940D-1.2G1	1000/Tube
			—	AZ2940D-1.2TRG1	—	AZ2940D-1.2G1	2500/Tape & Reel
			AZ2940D-1.8E1	AZ2940D-1.8G1	AZ2940D-1.8E1	AZ2940D-1.8G1	1000/Tube
			AZ2940D-1.8TRE1	AZ2940D-1.8TRG1	AZ2940D-1.8E1	AZ2940D-1.8G1	2500/Tape & Reel
			AZ2940D-2.5E1	AZ2940D-2.5G1	AZ2940D-2.5E1	AZ2940D-2.5G1	1000/Tube
			AZ2940D-2.5TRE1	AZ2940D-2.5TRG1	AZ2940D-2.5E1	AZ2940D-2.5G1	2500/Tape & Reel
			AZ2940D-3.3E1	AZ2940D-3.3G1	AZ2940D-3.3E1	AZ2940D-3.3G1	1000/Tube
			AZ2940D-3.3TRE1	AZ2940D-3.3TRG1	AZ2940D-3.3E1	AZ2940D-3.3G1	2500/Tape & Reel
			AZ2940D-5.0E1	AZ2940D-5.0G1	AZ2940D-5.0E1	AZ2940D-5.0G1	1000/Tube
			AZ2940D-5.0TRE1	AZ2940D-5.0TRG1	AZ2940D-5.0E1	AZ2940D-5.0G1	2500/Tape & Reel

Ordering Information (Cont.)

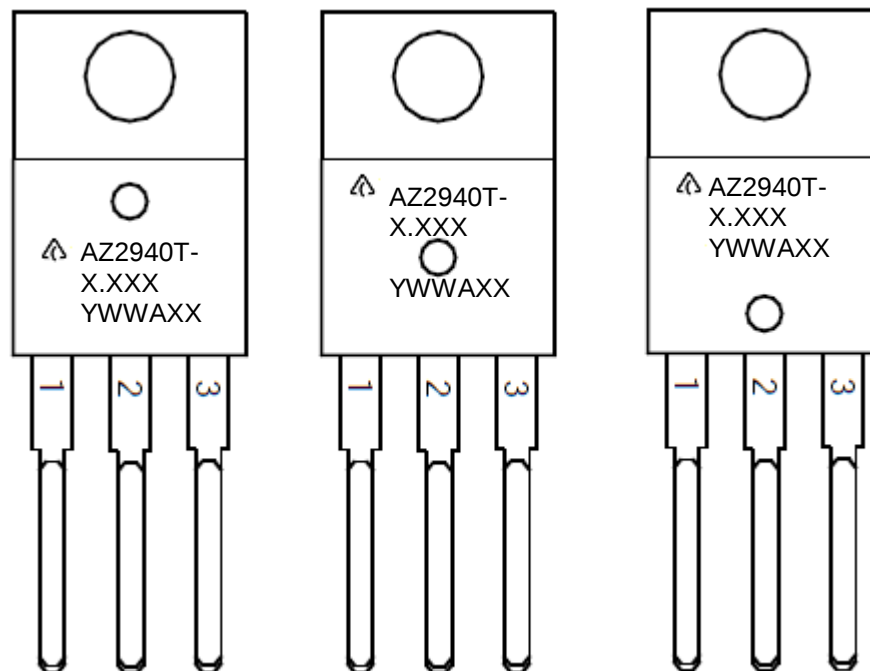
Package	Temperature Range	Part Number		Marking ID		Packing
		RoHS Compliant	Green	RoHS Compliant	Green	
SOT-223	-40 to +125°C	–	AZ2940H-1.2TRG1	–	GH12B	2500/Tape & Reel
		–	AZ2940H-1.8TRG1	–	GH12F	2500/Tape & Reel
		–	AZ2940H-2.5TRG1	–	GH12G	2500/Tape & Reel
		–	AZ2940H-3.3TRG1	–	GH12H	2500/Tape & Reel
		–	AZ2940H-5.0TRG1	–	GH12J	2500/Tape & Reel



Marking Information

(1) TO-220-3

(Front View)

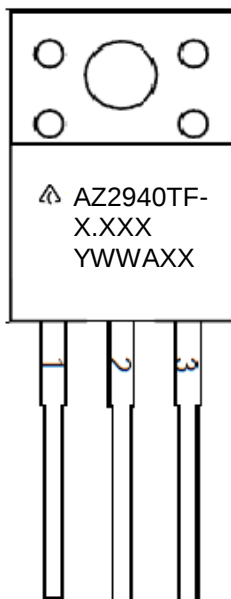


First and Second Lines: Logo and Marking ID
(See Ordering Information)
Third Line: Date Code
Y: Year
WW: Work Week of Molding
A: Assembly House Code
XX: Internal Code

Marking Information (Cont.)

(2) TO-220F-3

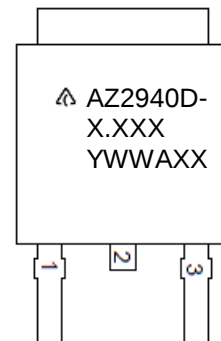
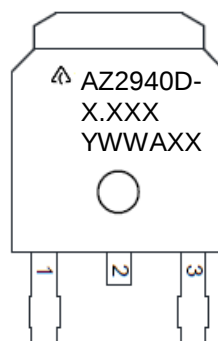
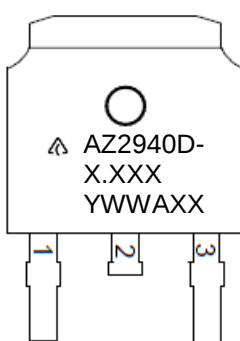
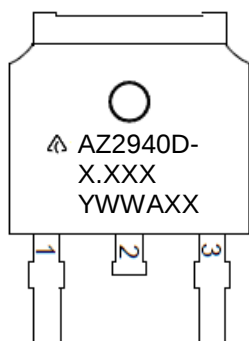
(Front View)



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: Internal Code

(3) TO-252-2(3)/(4)/(5)

(Top View)

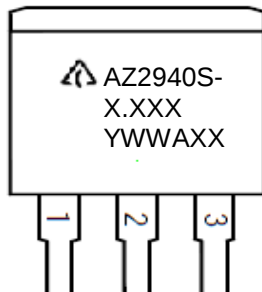


First and Second Lines: Logo and Marking ID
(See Ordering Information)
Third Line: Date Code
Y: Year
WW: Work Week of Molding
A: Assembly House Code
XX: Internal Code

Marking Information (Cont.)

(4) TO-263-3

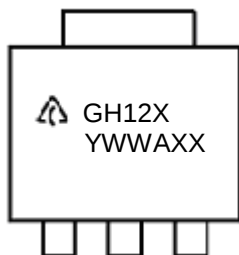
(Top View)



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: Internal Code

(5) SOT-223

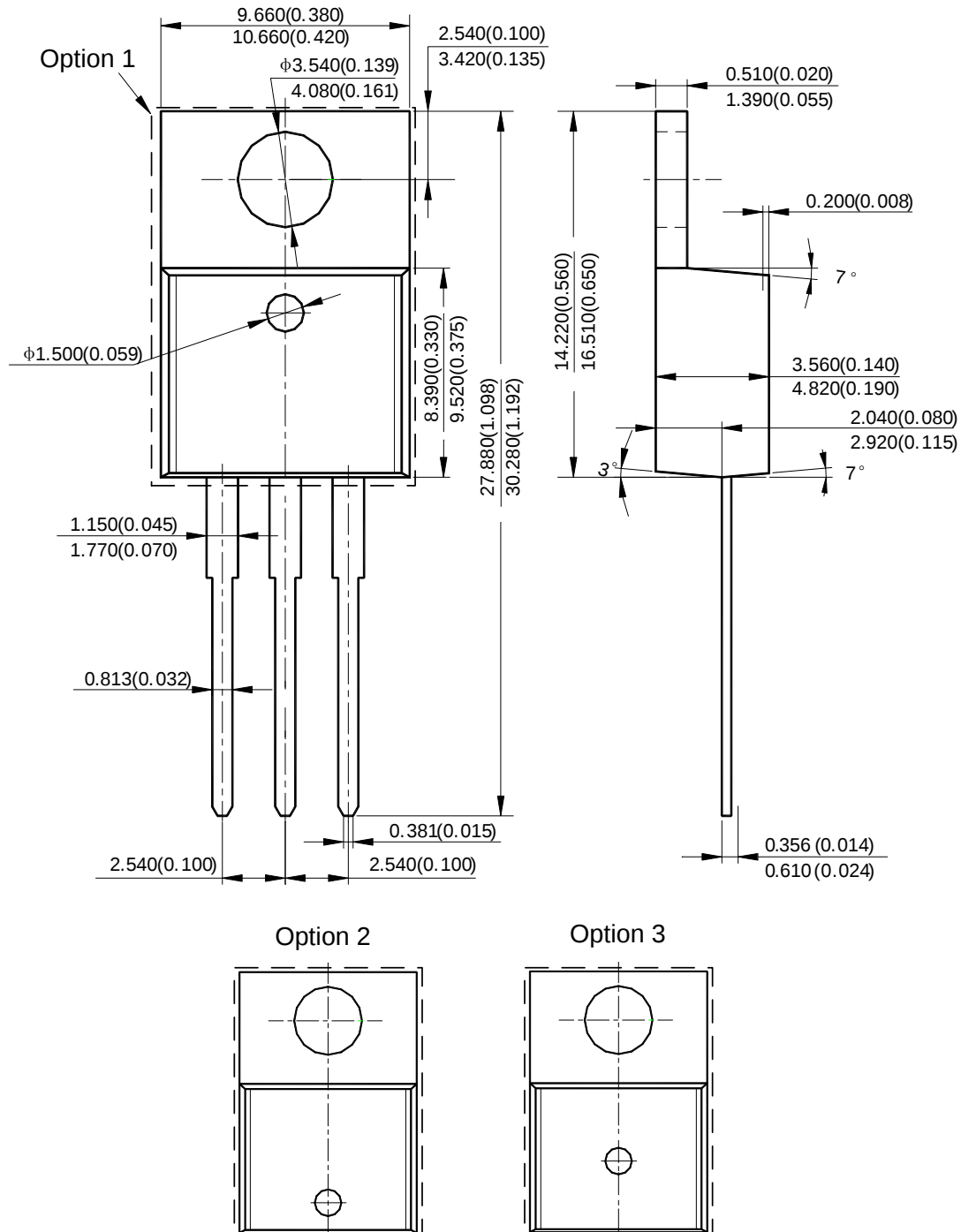
(Top View)



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: Internal Code

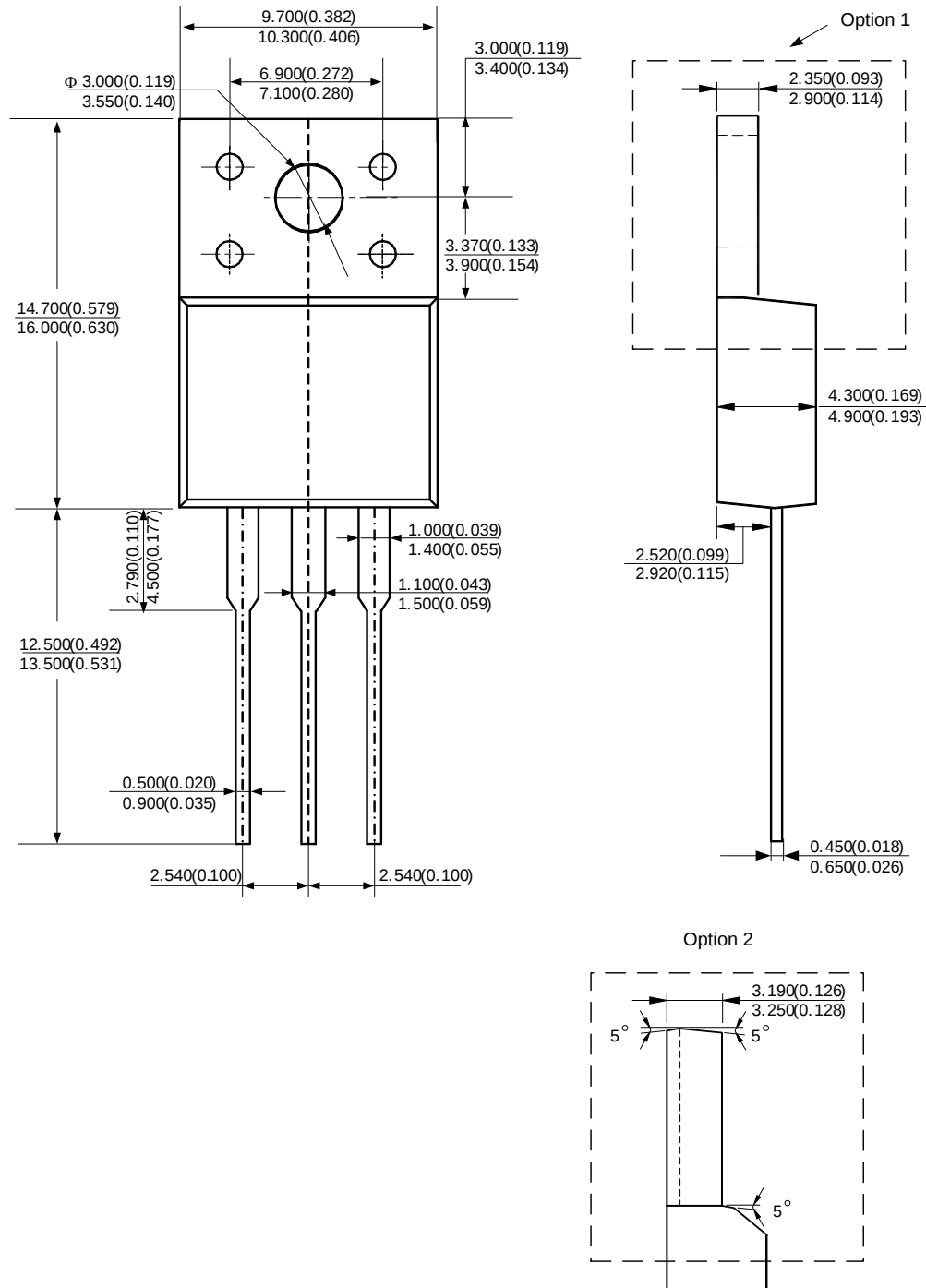
Package Outline Dimensions (All dimensions in mm(inch).)

(1) Package Type: TO-220-3



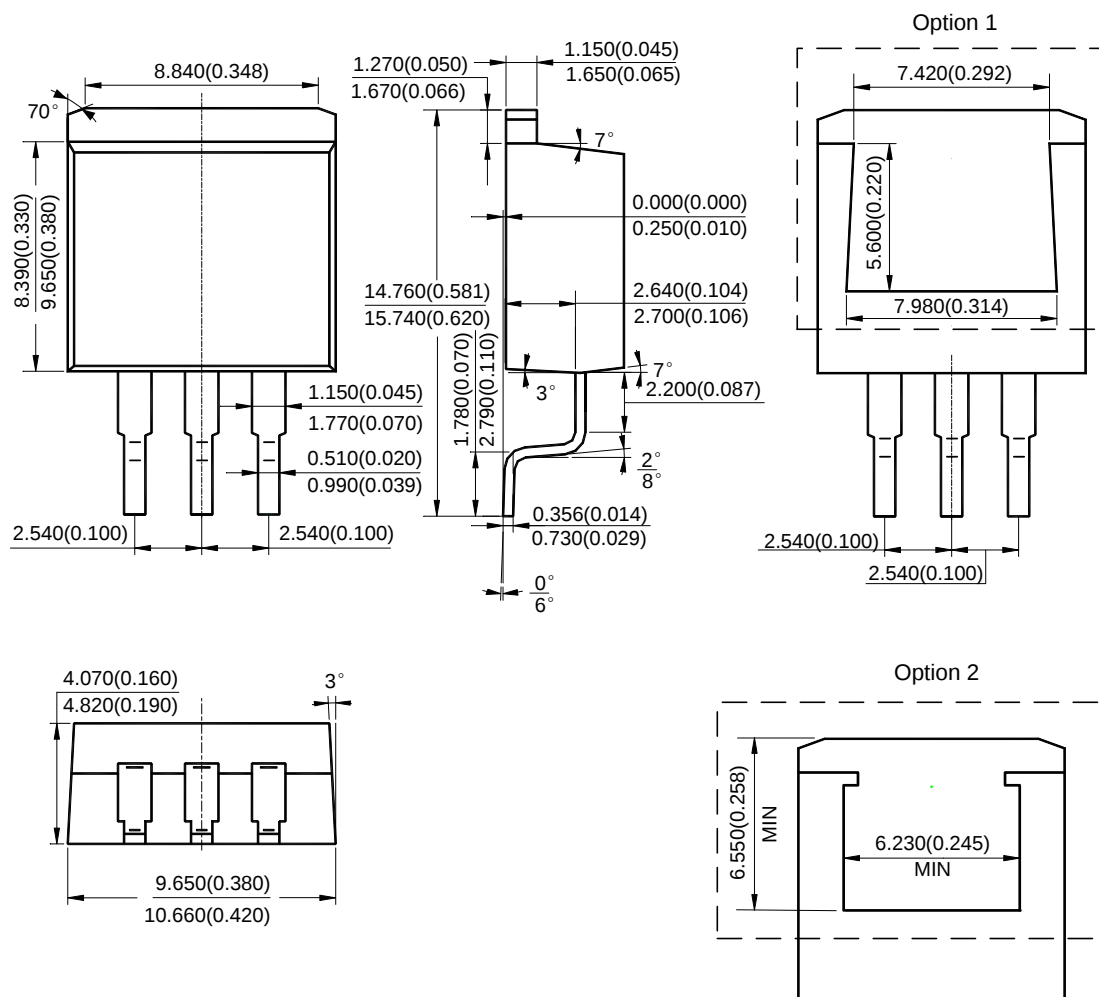
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(2) Package Type: TO-220F-3



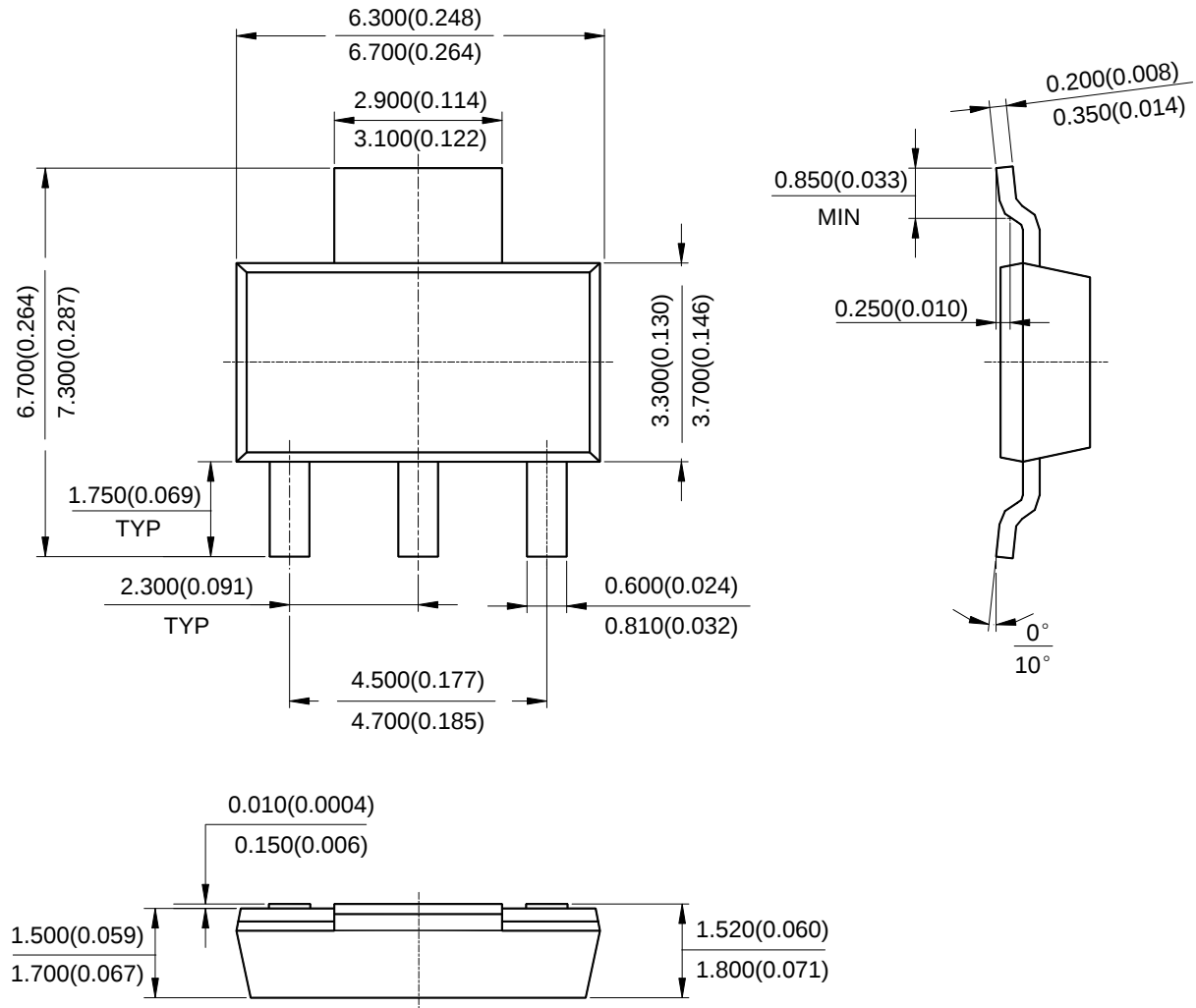
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(3) Package Type: TO-263-3



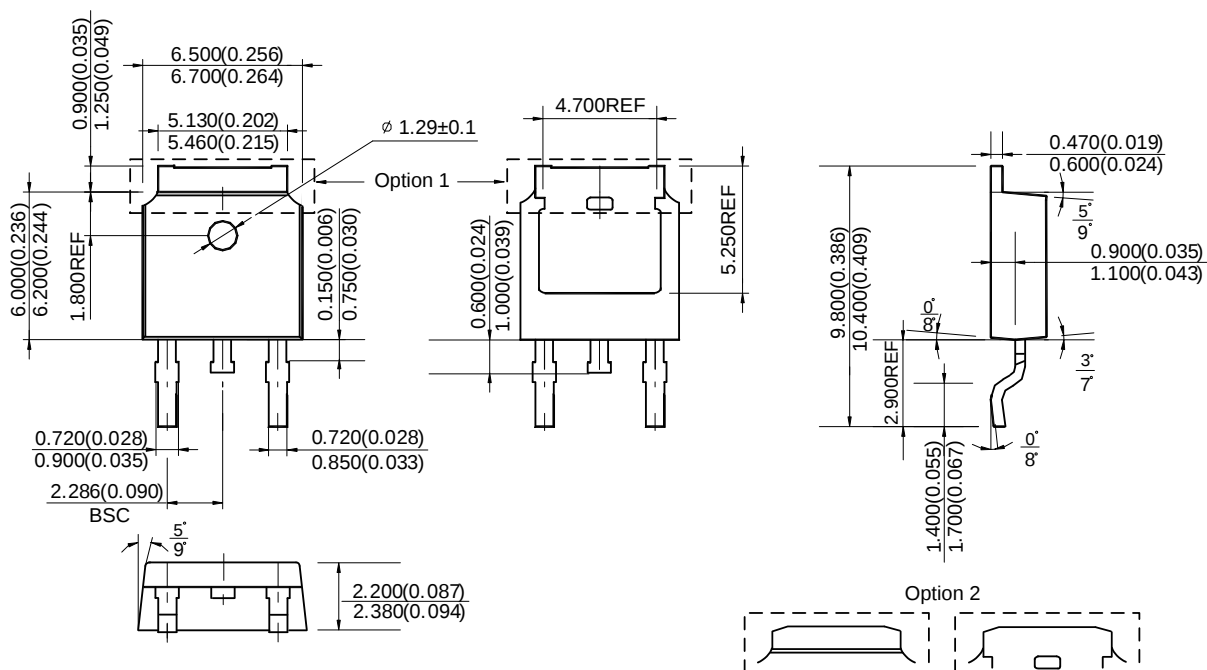
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(4) Package Type: SOT-223



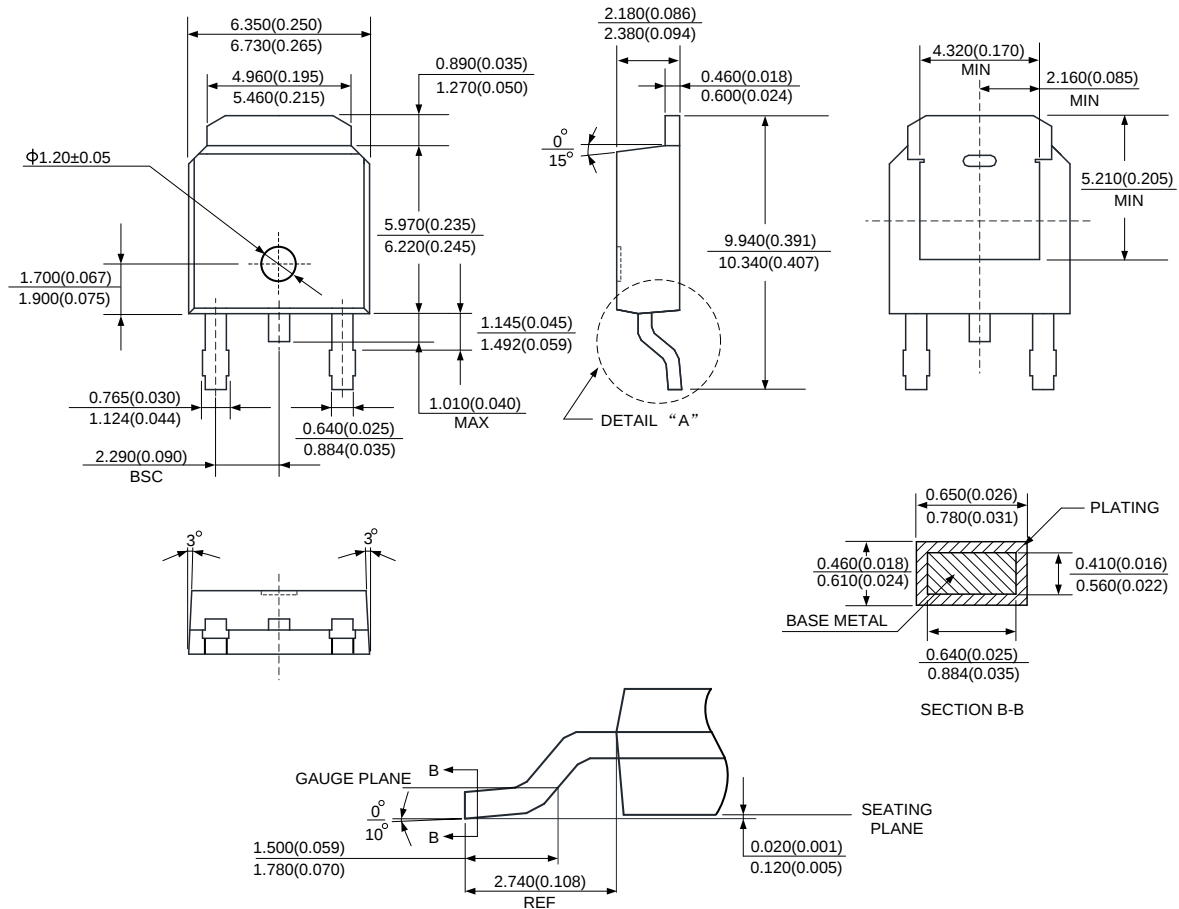
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(5) Package Type: TO-252-2 (3)



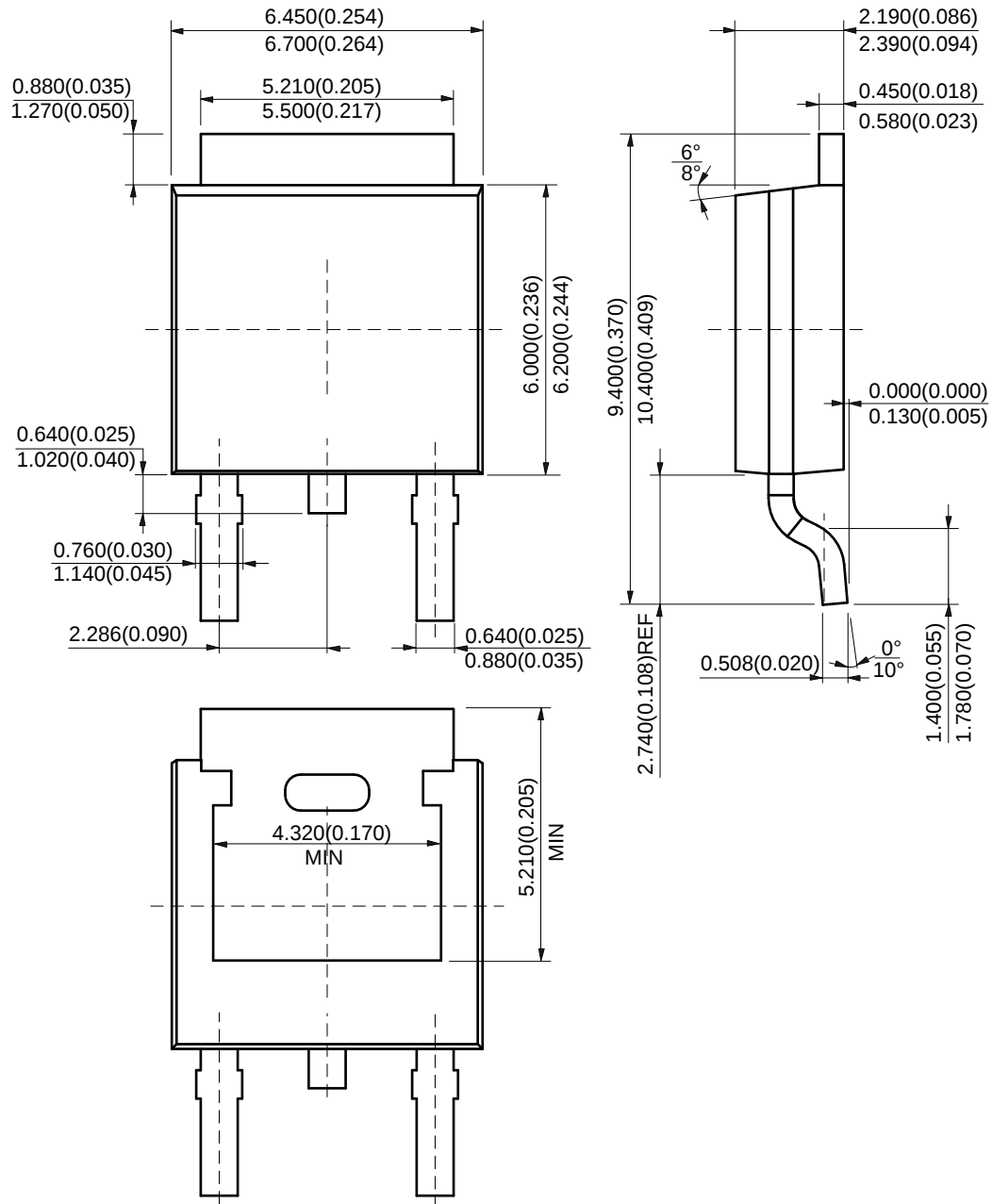
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(6) Package Type: TO-252-2 (4)



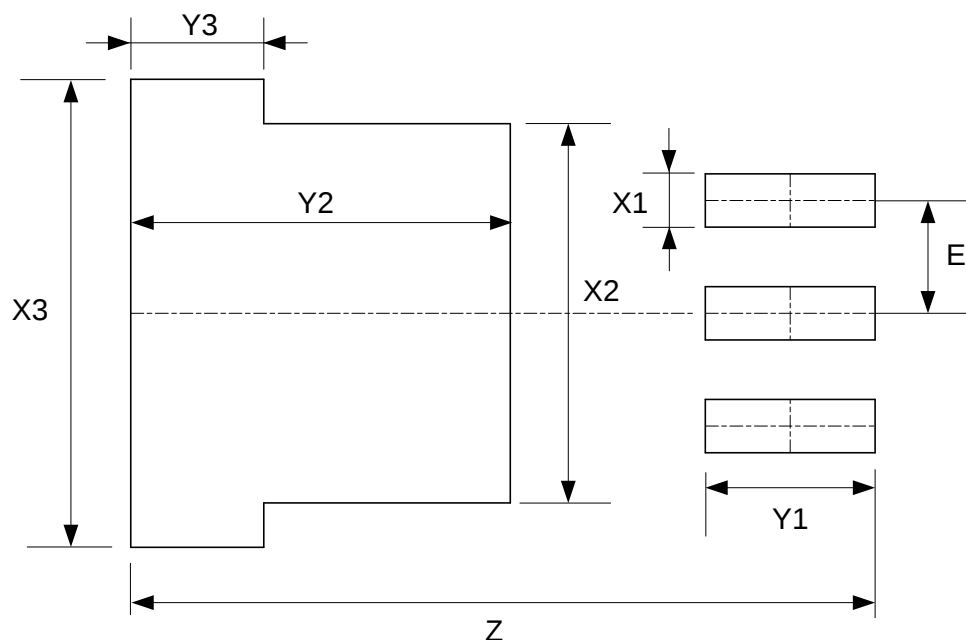
Package Outline Dimensions (Cont. All dimensions in mm(inch).)

(7) Package Type: TO-252-2 (5)



Suggested Pad Layout

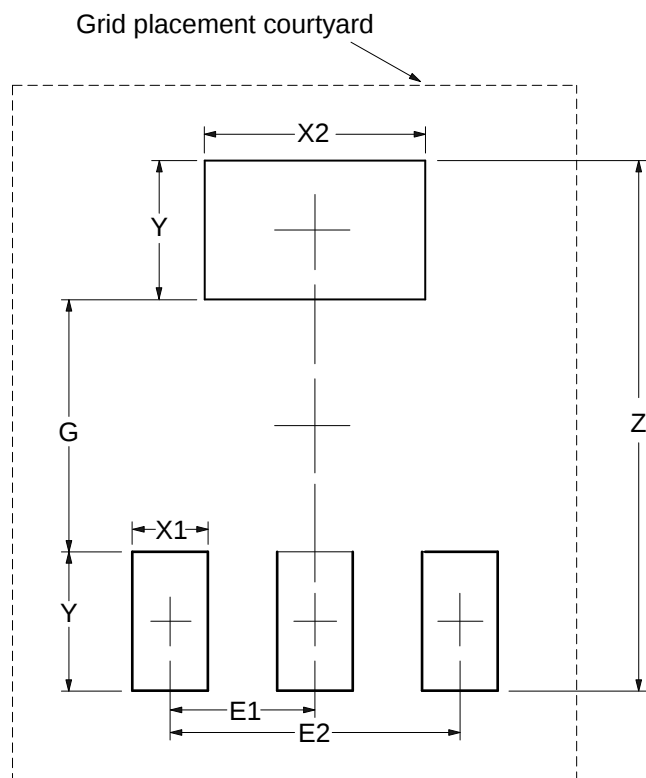
(1) Package Type: TO-263-3



Dimensions	Z (mm)/(inch)	X1 (mm)/(inch)	X2 (mm)/(inch)	X3 (mm)/(inch)
Value	16.760/0.660	1.200/0.047	8.540/0.336	10.540/0.415
Dimensions	Y1 (mm)/(inch)	Y2 (mm)/(inch)	Y3 (mm)/(inch)	E (mm)/(inch)
Value	3.830/0.151	8.560/0.337	3.000/0.118	2.540/0.100

Suggested Pad Layout (Cont.)

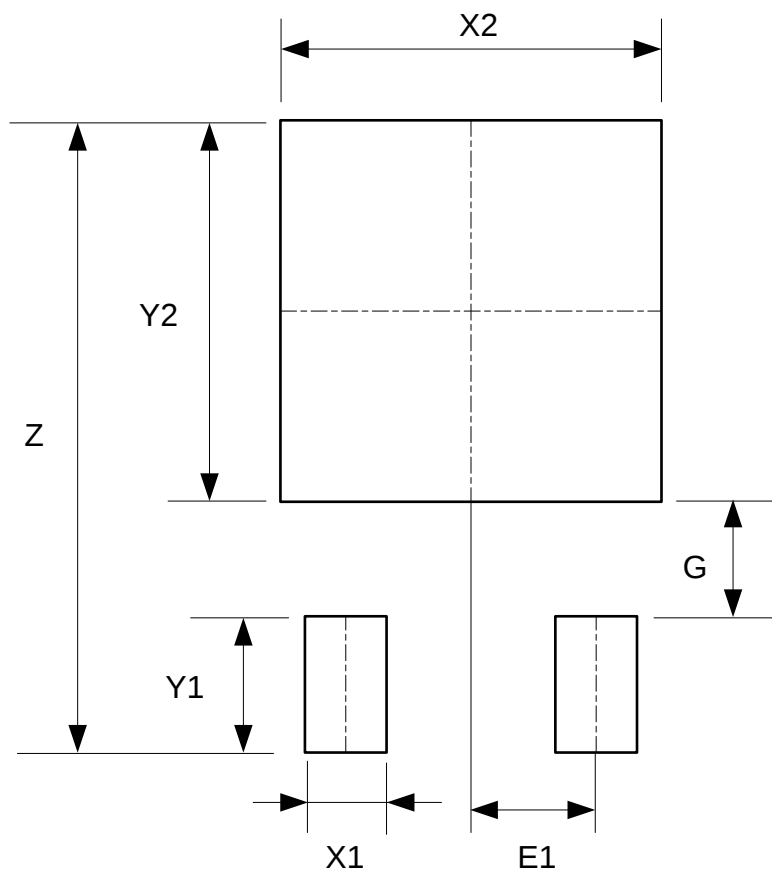
(2) Package Type: SOT-223



Dimensions	Z (mm)/(inch)	G (mm)/(inch)	X1 (mm)/(inch)	X2 (mm)/(inch)	Y (mm)/(inch)	E1 (mm)/(inch)	E2 (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.)

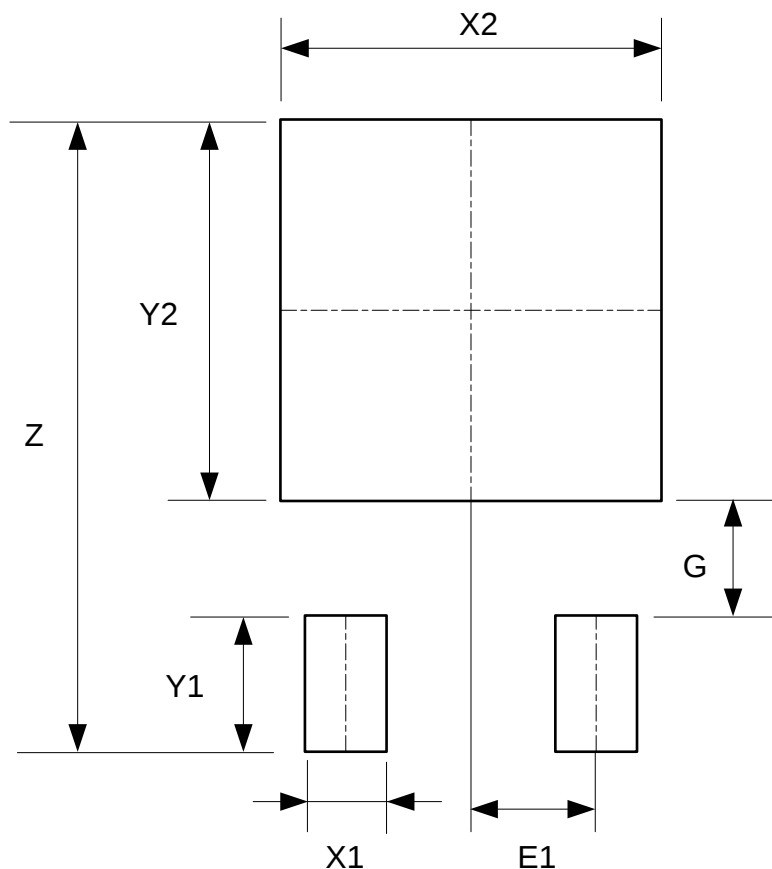
(3) Package Type: TO-252-2 (3)



Dimensions	Z (mm)/(inch)	X1 (mm)/(inch)	X2=Y2 (mm)/(inch)	Y1 (mm)/(inch)	G (mm)/(inch)	E1 (mm)/(inch)
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

Suggested Pad Layout (Cont.)

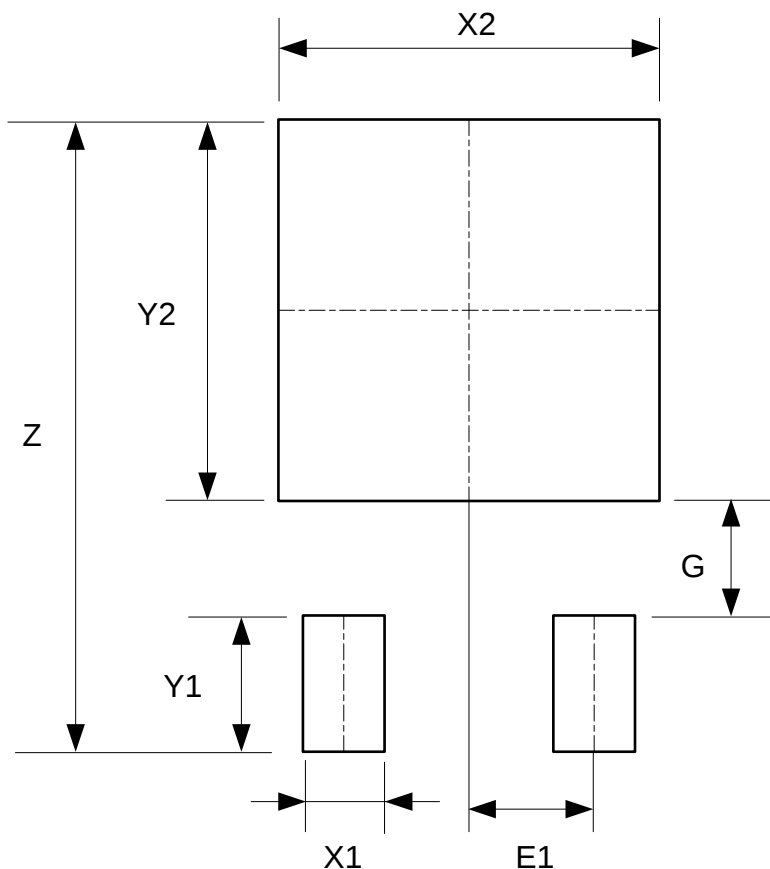
(4) Package Type: TO-252-2 (4)



Dimensions	Z (mm)/(inch)	X1 (mm)/(inch)	X2=Y2 (mm)/(inch)	Y1 (mm)/(inch)	G (mm)/(inch)	E1 (mm)/(inch)
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

Suggested Pad Layout (Cont.)

(5) Package Type: TO-252-2 (5)



Dimensions	Z (mm)/(inch)	X1 (mm)/(inch)	X2=Y2 (mm)/(inch)	Y1 (mm)/(inch)	G (mm)/(inch)	E1 (mm)/(inch)
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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