

5A LOW DROPOUT LINEAR REGULATOR

Description

The DIODES™ AZ1084C is a series of low-dropout positive-voltage regulators with a maximum dropout of 1.5V at 5A of load current.

The series features on-chip thermal limiting, which provides protection against any combination of overload and ambient temperatures that would create excessive junction temperatures. It also includes a trimmed bandgap reference and a current-limiting circuit.

The AZ1084C is available in 1.5V, 1.8V, 2.5V, 3.3V, and 5.0V versions. 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 AZ1084C series is available in the standard packages of TO263, TO263-2, TO252-2 (3), TO252-2 (4), and TO252-2 (5).

Applications

- · High-efficiency linear regulators
- · Battery chargers
- · Post-regulation for switching supplies
- Microprocessor supplies
- Desktop PCs, RISC, and embedded processors' supply

Features

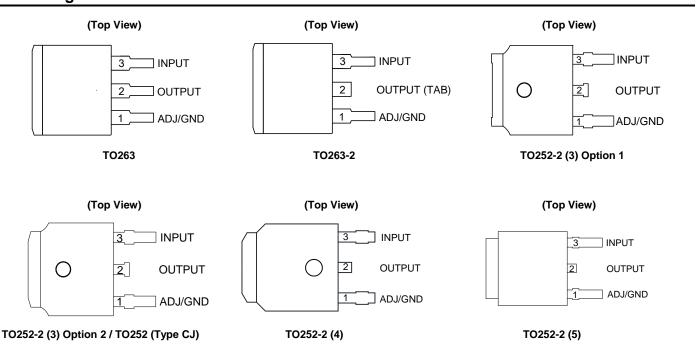
- Low Dropout Voltage: 1.35V Typical at 5A
- Current Limiting and Thermal Protection
- Output Current: 5A
- Current Limit: 6.5A
- Operating Junction Temperature Range: 0 to +125°C
- Compatible with Low ESR Ceramic Capacitor
- Line Regulation (Adj Version): 0.015% (Typ)
- Load Regulation (Adj Version): 0.1% (Typ)
- Lead-Free Packages: TO263, TO263-2
 - Totally Lead-Free; RoHS Compliant (Notes 1 & 2)
- Lead-Free Packages, Available in "Green" Molding Compound: TO263, TO263-2, TO252-2 (3), TO252-2 (4), TO252-2 (5)
 - Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
 - Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative.

https://www.diodes.com/quality/product-definitions/

Notes:

- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
- 2. See https://www.diodes.com/quality/lead-free/ 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

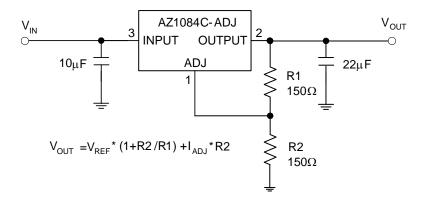


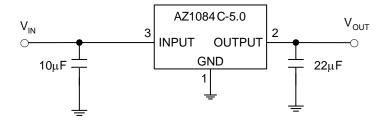
AZ1084C Document number: DS36545 Rev. 4 - 2 1 of 22

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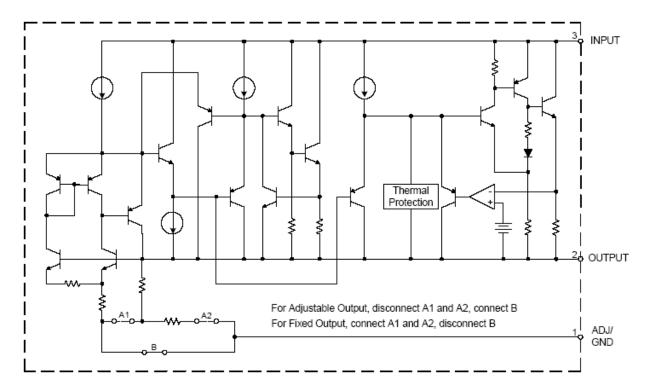


Typical Applications Circuit





Functional Block Diagram





Absolute Maximum Ratings (Note 4)

Symbol	Parameter	Rating	Unit	
V_{IN}	Input Voltage	13.2	V	
TJ	Operating Junction Temperature	+150		°C
T _{STG}	Storage Temperature Range	-65 to +150		°C
T _{LEAD}	Lead Temperature (Soldering, 10sec.)	+260		°C
		TO263-2	60	
θ_{JA}	Thermal Resistance (Note 5)	TO263	60	°C/W
SJA	Thermal resistance (Note 5)	TO252-2 (3)/TO252-2 (4)/TO252-2 (5)	100	- 0/ VV
ESD	ESD (Human Body Model)	2000		V
ESD	ESD (Machine Model)	400		V

Notes:

- 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.
- 5. Absolute maximum ratings indicate limits beyond which damage to the component may occur. Electrical specifications do not apply when operating the device outside of its operating ratings. The maximum allowable power dissipation is a function of the maximum junction temperature, T_{J(max)}, the junction to-ambient thermal resistance, θ_{JA}, and the ambient temperature, T_A. The maximum allowable power dissipation at any ambient temperature is calculated using: P_{D(max)} = (T_{J(max)}, T_A)/θ_{JA}. Exceeding the maximum allowable power dissipation will result in excessive die temperature, and the regulator will go into thermal shutdown

Recommended Operating Conditions

Symbol	Parameter	Min	Max	Unit
V _{IN}	Input Voltage	_	12	٧
TJ	Operating Junction Temperature Range	0	+125	°C



Electrical Characteristics (Typicals and limits appearing in normal type apply for $T_J = +25$ °C. Limits appearing in **Boldface** type apply over the entire operating junction temperature range.)

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{REF}	Reference Voltage	AZ1084C-ADJ, $I_{OUT} = 10mA$, $V_{IN}-V_{OUT} = 3V$, $10mA \le I_{OUT} \le 5A$, $1.5V \le V_{IN}-V_{OUT} \le 5V$	1.238 1.225	1.250 1.250	1.262 1.270	V
		AZ1084C-1.5, $I_{OUT} = 0mA$, $V_{IN} = 4.5V$, $10mA \le I_{OUT} \le 5A$, $3.0V \le V_{IN} \le 6V$	1.485 1.47	1.5 1.5	1.515 1.53	٧
		AZ1084C-1.8, $I_{OUT} = 0mA$, $V_{IN} = 4.8V$, $10mA \le I_{OUT} \le 5A$, $3.3V \le V_{IN} \le 6V$	1.782 1.764	1.8 1.8	1.818 1.836	V
V _О Т	Output Voltage	AZ1084C-2.5, $I_{OUT} = 0mA$, $V_{IN} = 5.5V$ $10mA \le I_{OUT} \le 5A$, $4.0V \le V_{IN} \le 7V$	2.475 2.45	2.5 2.5	2.525 2.55	٧
		AZ1084C-3.3, $I_{OUT} = 0mA$, $V_{IN} = 6.3V$, $10mA \le I_{OUT} \le 5A$, $4.8V \le V_{IN} \le 8V$	3.267 3.234	3.3 3.3	3.333 3.366	V
		AZ1084C-5.0, $I_{OUT} = 0mA$, $V_{IN} = 8V$, $10mA \le I_{OUT} \le 5A$, $6.5V \le V_{IN} \le 10V$	4.95 4.9	5 5	5.05 5.1	V
		AZ1084C-ADJ, I _{OUT} = 10mA, 2.85V ≤ V _{IN} ≤ 10V	_	0.015 0.035	0.2 0.2	%
		AZ1084C-1.5, $I_{OUT} = 10\text{mA}, 3.0\text{V} \le V_{IN} \le 10\text{V}$	_	0.5 1	6 6	mV
		AZ1084C-1.8, $I_{OUT} = 10\text{mA}, 3.3\text{V} \le \text{V}_{IN} \le 10\text{V}$	_	0.5 1	6 6	mV
ΔV_OUT	Line Regulation	AZ1084C-2.5, $I_{OUT} = 10\text{mA}, 4.0\text{V} \le \text{V}_{IN} \le 10\text{V}$	_	0.5 1	6 6	mV
		AZ1084C-3.3, I _{OUT} = 10mA, 4.8V ≤ V _{IN} ≤ 10V	_	0.5 1	6 6	mV
		AZ1084C-5.0, $I_{OUT} = 10\text{mA}, 6.5\text{V} \le \text{V}_{IN} \le 10\text{V}$	_	0.5 1	10 10	mV
		AZ1084C-ADJ, $0mA \le I_{OUT} \le 5A$, $V_{IN}-V_{OUT} = 3V$	_	0.1 0.2	0.3 0.4	%
		AZ1084C-1.5, $0mA \le I_{OUT} \le 5A$, $V_{IN}-V_{OUT} = 3V$	_	3 7	15 20	mV
		AZ1084C-1.8, $0mA \le I_{OUT} \le 5A$, $V_{IN}-V_{OUT} = 3V$	_	3 7	15 20	mV
$\Delta VOUT$	Load Regulation	AZ1084C-2.5, $0mA \le I_{OUT} \le 5A$, $V_{IN}-V_{OUT} = 3V$	_	3 7	15 20	mV
		AZ1084C-3.3, $0mA \le I_{OUT} \le 5A$, $V_{IN}-V_{OUT} = 3V$	- 3 7		15 20	mV
		AZ1084C-5.0, $0mA \le I_{OUT} \le 5A$, $V_{IN}-V_{OUT} = 3V$	_	5 10	20 35	mV
V_{DROP}	Dropout Voltage	$I_{OUT} = 4.5A$, ΔV_{REF} , $\Delta V_{OUT} = 1\%$	_	1.35	1.5	V
		TO263	_	4.15	_	
θ_{JC}	Thermal Resistance (Junction to Case)	TO263-2	— 4.15		_	°C/W
	(505	TO252-2 (3)/TO252-2 (4)/TO252-2 (5)	_	7.36	_	



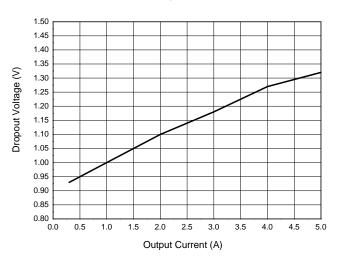
Electrical Characteristics (Cont. Typicals and limits appearing in normal type apply for $T_J = +25$ °C. Limits appearing in **Boldface** type apply over the entire operating junction temperature range.)

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
I _{LIMIT}	Current Limit	V _{IN} -V _{OUT} = 3V	5.5	6.5	1	Α
I _{LOAD} (MIN)	Minimum Load Current	V _{IN} = 10V (AZ1084C-ADJ)	_	3	10	mA
ΙQ	Quiescent Current	V _{IN} = 10V (AZ1084C)	_	5	10	mA
PSRR	Ripple Rejection	f_{RIPPLE} = 120Hz, C_{OUT} = 25 μ F Tantalum, I_{OUT} = 5A, V_{IN} - V_{OUT} = 3V	60	72		dB
I _{ADJ}	Adjust Pin Current	V _{IN} = 4.25V, I _{OUT} = 10mA		55	120	μΑ
Δl _{ADJ}	Adjust Pin Current Change	10mA ≤ I_{OUT} ≤ 5A, 1.5V ≤ $(V_{IN}-V_{OUT})$ ≤ 4.5V		0.2	5	μΑ
_	Temperature Stability I _{OUT} = 10mA, V _{IN} -V _{OUT} = 1.5V		_	0.5	_	%
_	Long Term Stability	T _A = +125°C, 1000Hrs	_	0.5	_	%
_	— RMS Noise (% of V _{OUT}) 10Hz ≤ f ≤ 10kHz		_	0.003	_	%

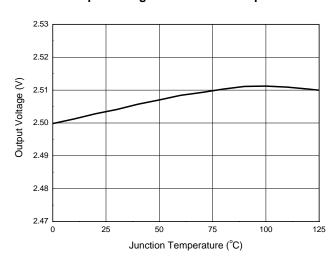


Performance Characteristics

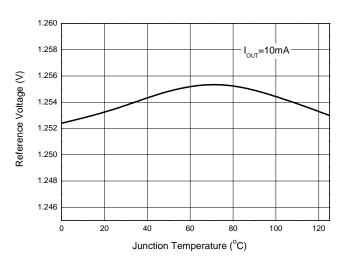
Dropout Voltage vs. Output Current



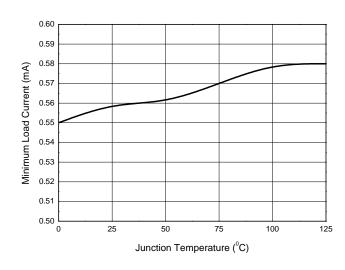
Output Voltage vs. Junction Temperature



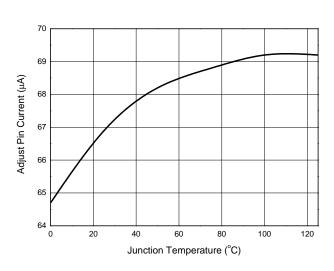
Reference Voltage vs. Junction Temperature



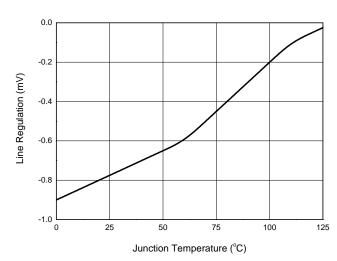
Minimum Load Current vs. Junction Temperature



Adjust Pin Current vs. Junction Temperature



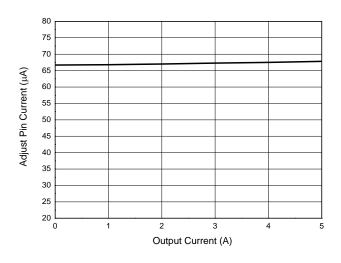
Line Regulation vs. Junction Temperature



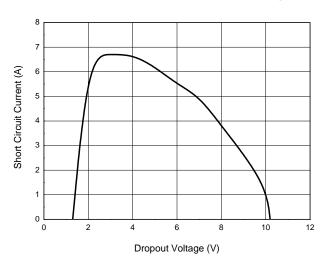


Performance Characteristics (continued)

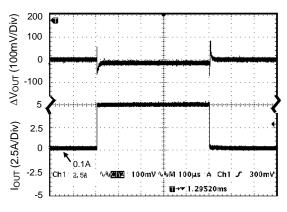
Adjust Pin Current vs. Output Current



Short Circuit Current vs. Dropout Voltage

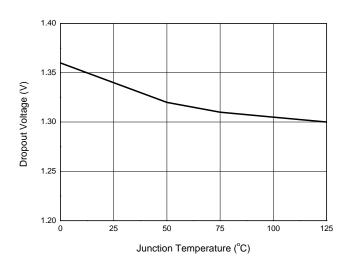


Load Transient Response (Conditions: $V_{IN} = 5.5V$, $V_{OUT} = 2.5V$, $I_{OUT} = 10$ mA to 5A, $C_{IN} = 10$ µF, $C_{OUT} = 10$ µF)

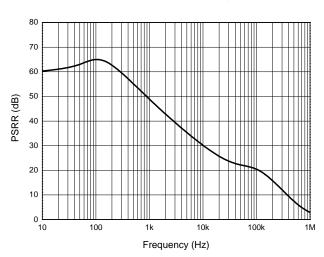


Time (100µs/Div)

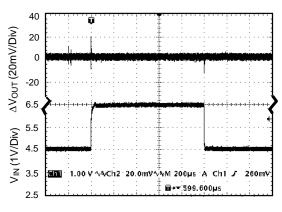
Dropout Voltage vs. Junction Temperature



PSRR vs. Frequency



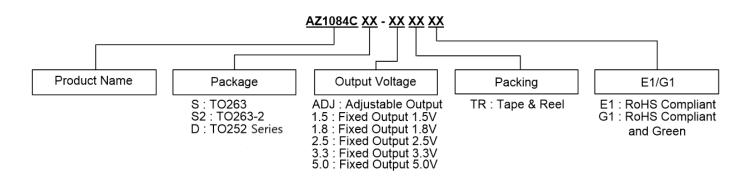
 $\label{eq:linear} Line Transient Response \\ \mbox{(Conditions: $V_{IN}=4.5$V to 6.5$V, $V_{OUT}=2.5$V,} \\ \mbox{$I_{OUT}=200mA$, $C_{OUT}=10$\mu$F)} \\$



Time (200µs/Div)



Ordering Information



		Temperature	Part I	Number	Marki	ng ID	
	Package	Range	RoHS Compliant	RoHS Compliant and Green	RoHS Compliant	RoHS Compliant and Green	Packing
	TO263	0 to +125°C	AZ1084CS- ADJTRE1	AZ1084CS- ADJTRG1	AZ1084CS-ADJE1	AZ1084CS- ADJG1	800/Tape & Reel
	TO263	0 to +125°C	AZ1084CS- 1.5TRE1	AZ1084CS- 1.5TRG1	AZ1084CS-1.5E1	AZ1084CS-1.5G1	800/Tape & Reel
Lead-Free	TO263	0 to +125°C	AZ1084CS- 1.8TRE1	AZ1084CS- 1.8TRG1	AZ1084CS-1.8E1	AZ1084CS-1.8G1	800/Tape & Reel
Pb Lead-free Green	TO263	0 to +125°C	AZ1084CS- 2.5TRE1	AZ1084CS- 2.5TRG1	AZ1084CS-2.5E1	AZ1084CS-2.5G1	800/Tape & Reel
Lead-free Green	TO263	0 to +125°C	AZ1084CS- 3.3TRE1	AZ1084CS- 3.3TRG1	AZ1084CS-3.3E1	AZ1084CS-3.3G1	800/Tape & Reel
	TO263	0 to +125°C	AZ1084CS- 5.0TRE1	AZ1084CS- 5.0TRG1	AZ1084CS-5.0E1	AZ1084CS-5.0G1	800/Tape & Reel
	TO263-2	0 to +125°C	AZ1084CS2- ADJTRE1	AZ1084CS2- ADJTRG1	AZ1084CS2- ADJE1	AZ1084CS2- ADJG1	800/Tape & Reel
	TO263-2	0 to +125°C	AZ1084CS2- 1.5TRE1	AZ1084CS2- 1.5TRG1	AZ1084CS2-1.5E1	AZ1084CS2- 1.5G1	800/Tape & Reel
Lead-Free	TO263-2	0 to +125°C	AZ1084CS2- 1.8TRE1	AZ1084CS2- 1.8TRG1	AZ1084CS2-1.8E1	AZ1084CS2- 1.8G1	800/Tape & Reel
Pb	TO263-2	0 to +125°C	AZ1084CS2- 2.5TRE1	AZ1084CS2- 2.5TRG1	AZ1084CS2-2.5E1	AZ1084CS2- 2.5G1	800/Tape & Reel
Lead-free Green	TO263-2	0 to +125°C	AZ1084CS2- 3.3TRE1	AZ1084CS2- 3.3TRG1	AZ1084CS2-3.3E1	AZ1084CS2- 3.3G1	800/Tape & Reel
	TO263-2	0 to +125°C	AZ1084CS2- 5.0TRE1	AZ1084CS2- 5.0TRG1	AZ1084CS2-5.0E1	AZ1084CS2- 5.0G1	800/Tape & Reel

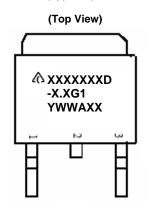


Ordering Information (continued)

			Part N	umber	Marki	ing ID	
	Package	Temperature Range	RoHS Compliant	RoHS Compliant and Green	RoHS Compliant	RoHS Compliant and Green	Packing
	TO252-2 (3)/(4)/(5) TO252 (Type CJ)	0 to +125°C	_	AZ1084CD- ADJTRG1	_	AZ1084CD- ADJG1	2500/Tape & Reel
	TO252-2 (3)/(4)/(5) TO252 (Type CJ)	0 to +125°C	_	AZ1084CD- 1.5TRG1	_	AZ1084CD- 1.5G1	2500/Tape & Reel
_	TO252-2 (3)/(4)/(5) TO252 (Type CJ)	0 to +125°C	_	AZ1084CD- 1.8TRG1	_	AZ1084CD- 1.8G1	2500/Tape & Reel
Green	TO252-2 (3)/(4)/(5) TO252 (Type CJ)	0 to +125°C	_	AZ1084CD- 2.5TRG1	_	AZ1084CD- 2.5G1	2500/Tape & Reel
	TO252-2 (3)/(4)/(5) TO252 (Type CJ)	0 to +125°C	_	AZ1084CD- 3.3TRG1	_	AZ1084CD- 3.3G1	2500/Tape & Reel
	TO252-2 (3)/(4)/(5) TO252 (Type CJ)	0 to +125°C	_	AZ1084CD- 5.0TRG1	_	AZ1084CD- 5.0G1	2500/Tape & Reel

Marking Information

(1) TO252-2 Series/ TO252 (Type CJ)



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

(2) TO263-2 Series

(Top View)



First and Second Lines: Logo and Marking ID (See Ordering Information) (G1 may be E1 depending on product) Third Line: Date Code

Y: Year

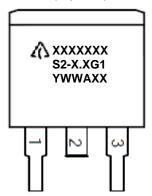
WW: Work Week of Molding A: Assembly House Code

XX: 7th and 8th Digits of Batch Number



Marking Information (continued)

(Top View)



First and Second Lines: Logo and Marking ID (See Ordering Information) (G1 may be E1 depending on product)

Third Line: Date Code

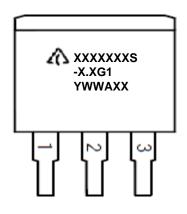
Y: Year

WW: Work Week of Molding A: Assembly House Code

XX: 7th and 8th Digits of Batch Number

(3) TO263 Series

(Top View)



First and Second Lines: Logo and Marking ID

(See Ordering Information) (G1 may be E1 depending on product)

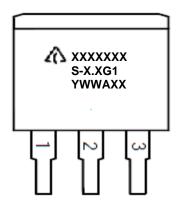
Third Line: Date Code

Y: Year

WW: Work Week of Molding A: Assembly House Code

XX: 7th and 8th Digits of Batch Number

(Top View)



First and Second Lines: Logo and Marking ID

(See Ordering Information) (G1 may be E1 depending on product)

Third Line: Date Code

Y: Year

WW: Work Week of Molding A: Assembly House Code

XX: 7th and 8th Digits of Batch Number

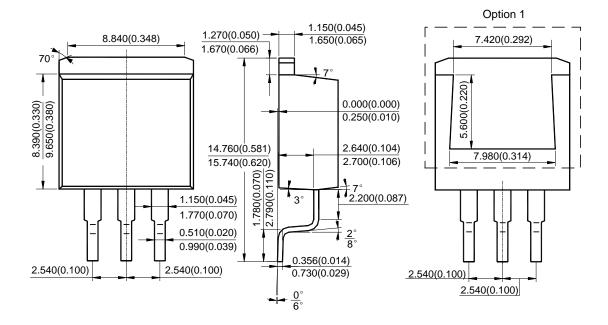
AZ1084C Document number: DS36545 Rev. 4 - 2 10 of 22

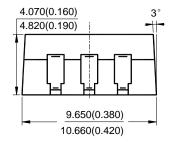


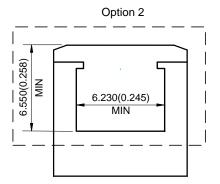
Package Outline Dimensions (All dimensions in mm)

Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: TO263



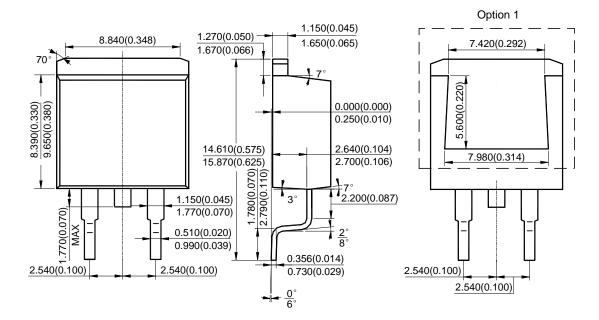


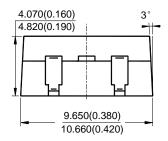


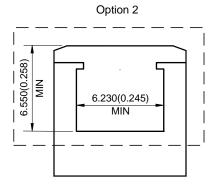


Please see http://www.diodes.com/package-outlines.html for the latest version.

(2) Package Type: TO263-2



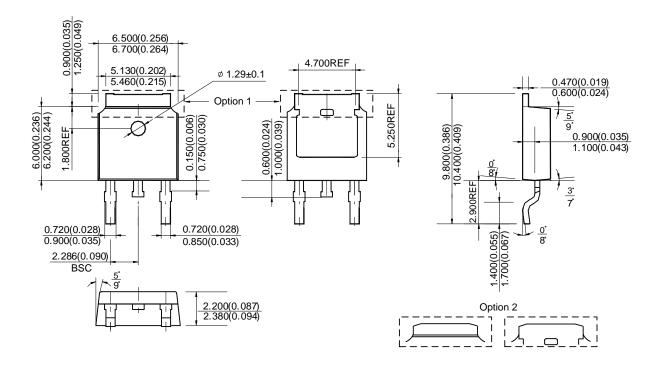






Please see http://www.diodes.com/package-outlines.html for the latest version.

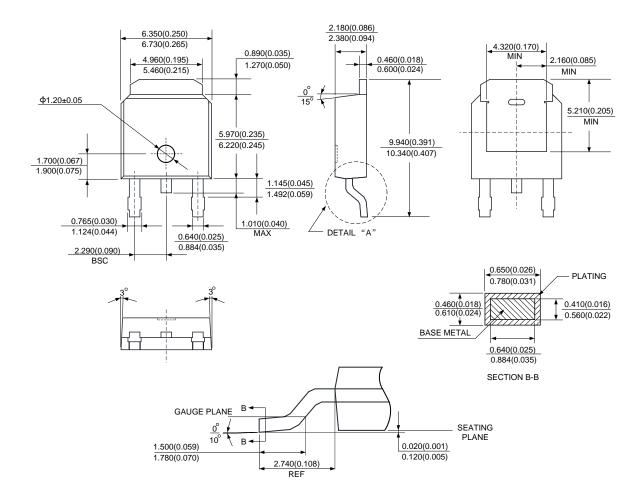
(3) Package Type: TO252-2 (3)





Please see http://www.diodes.com/package-outlines.html for the latest version.

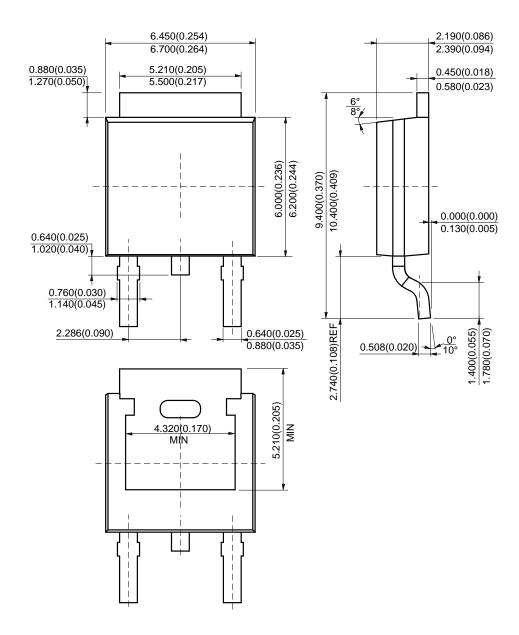
(4) Package Type: TO252-2 (4)





Please see http://www.diodes.com/package-outlines.html for the latest version.

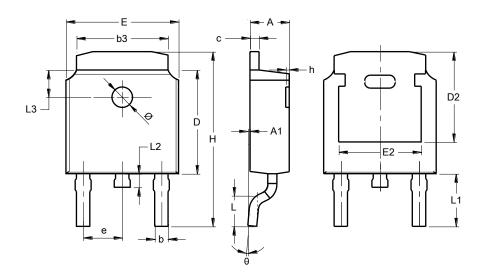
(5) Package Type: TO252-2 (5)





Please see http://www.diodes.com/package-outlines.html for the latest version.

(6) Package Type: TO252 (Type CJ)



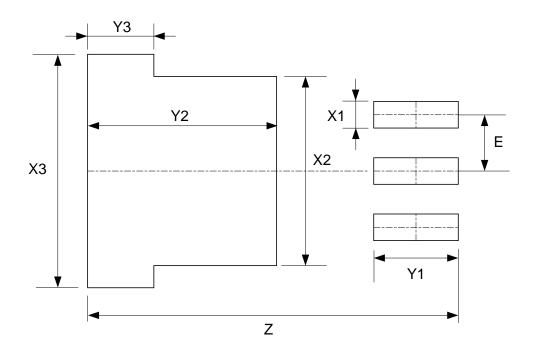
	TO252									
	(Type CJ)									
Dim	Min	Max	Тур							
Α	2.200	2.400								
A 1	0.000	0.127	-							
b	0.635	0.770								
b3	5.100	5.460								
С	0.460	0.580								
D	6.000	6.200								
D2	5	.250 RE	F							
Е	6.500	6.700								
E2	4	.830 RE	F							
е	2.186	2.386								
h	0.000	0.300								
Н	9.712	10.312								
L	1.400	1.700								
L1	2	.900 RE	F							
L2	0.600	1.000								
L3	1.	.600 RE	F							
Ø	1.100	1.300								
θ	0°	8°								
Al	l Dimen	sions in	mm							



Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: TO263

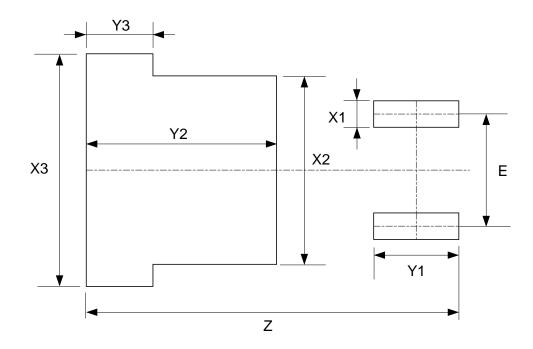


Dimensions	Z	X1	X2	X3
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	16.760/0.660	1.200/0.047	8.540/0.336	10.540/0.415
Dimensions	Y1	Y2	Y3	E
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	3.830/0.151	8.560/0.337	3.000/0.118	2.540/0.100



Please see http://www.diodes.com/package-outlines.html for the latest version.

(2) Package Type: TO263-2

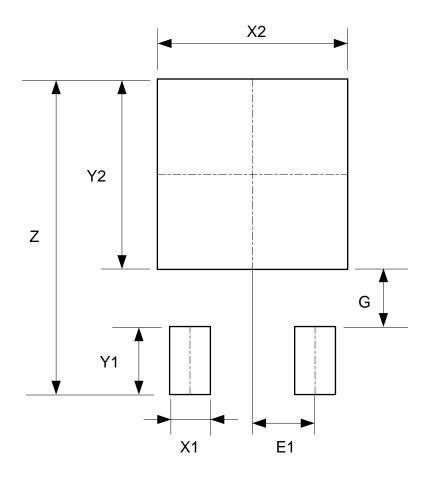


Dimensions	Z	X1	X2	X3
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	16.760/0.660	1.200/0.047	8.540/0.336	10.540/0.415
Dimensions	Y1	Y2	Y3	E
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	3.830/0.151	8.560/0.337	3.000/0.118	5.080/0.200



Please see http://www.diodes.com/package-outlines.html for the latest version.

(3) Package Type: TO252-2 (3)/ TO252 (Type CJ)

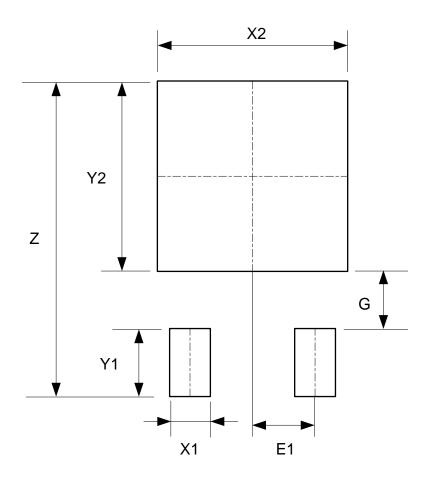


Dimensions	Z	X1	X2=Y2	Y1	G	E1
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	11.600/0.457	1.500/0.059	7.000/0.276	2.500/0.098	2.100/0.083	2.300/0.091



 $\label{please} Please see \ http://www.diodes.com/package-outlines.html for the latest version.$

(4) Package Type: TO252-2 (4)

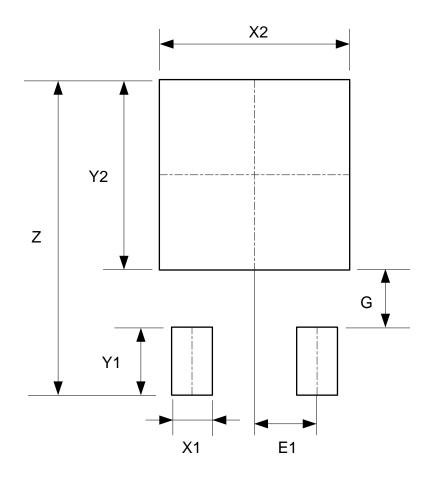


Dimensions	Z	X1	X2=Y2	Y1	G	E1
Dimensions	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	11.600/0.457	1.500/0.059	7.000/0.276	2.500/0.098	2.100/0.083	2.300/0.091



Please see http://www.diodes.com/package-outlines.html for the latest version.

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



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

Mechanical Data

- Moisture Sensitivity: Level 3 per J-STD-020
- Terminals: Finish—Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 @3
- Weight:
 - TO252: 0.312 grams (Approximate)
 - TO263: 1.415 grams (Approximate)

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