imall

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5A LOW DROPOUT LINEAR REGULATOR

Description

The 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 standard packages of TO263, TO263-2, TO252-2 (3), TO252-2 (4) and TO252-2 (5).

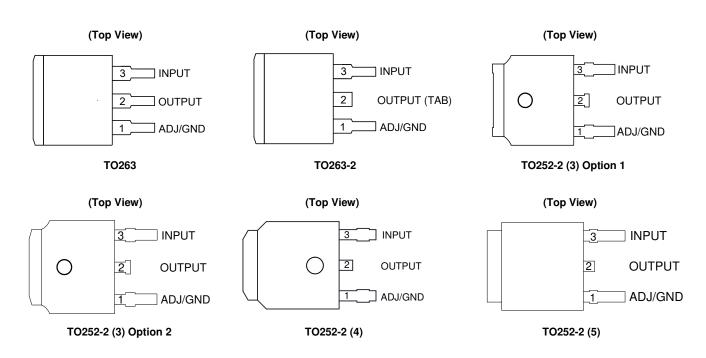
Features

- 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)

Applications

- High Efficiency Linear Regulators
- Battery Chargers
- Post Regulation for Switching Supply
- Microprocessor Supply
- Desktop PCs, RISC and Embedded Processors' Supply
- 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.

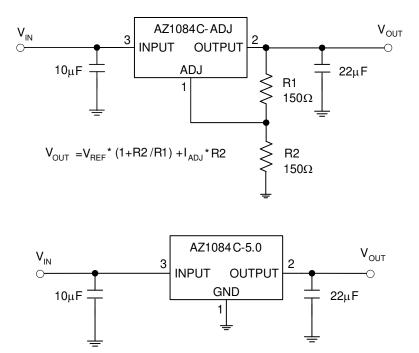
Pin Assignments



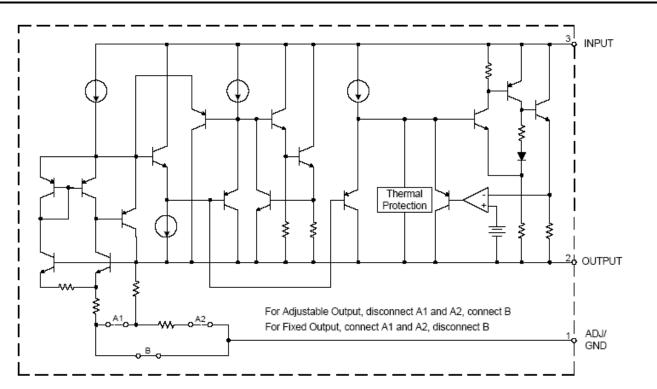




Typical Applications Circuit



Functional Block Diagram







Absolute Maximum Ratings (Note 4)

Symbol	Parameter Rating		Unit			
TJ	Operating Junction Temperature	+150	+150			
T _{STG}	Storage Temperature Range	-65 to +150		-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		
		TO252-2 (3)/TO252-2 (4)/TO252-2 (5) 100]		
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	Мах	Unit
V _{IN}	Input Voltage	_	12	V
TJ	Operating Junction Temperature Range	0	+125	⁰C





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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{REF}	Reference Voltage	$\label{eq:azian} \begin{array}{l} AZ1084C\text{-}ADJ\text{,}\\ I_{OUT} = 10mA\text{, }V_{IN}\text{-}V_{OUT} = 3V\text{,}\\ 10mA \leqslant I_{OUT} \leqslant 5A\text{, }1.5V \leqslant V_{IN}\text{-}V_{OUT}\\ \leqslant 5V \end{array}$	1.238 1.225	1.250 1.250	1.262 1.270	v
		$\label{eq:azian} \begin{split} AZ1084C\text{-}1.5,\\ I_{OUT} = 0\text{mA}, V_{\text{IN}} = 4.5\text{V},\\ 10\text{mA} \leqslant I_{OUT} \leqslant 5\text{A}, 3.0\text{V} \leqslant \text{V}_{\text{IN}} \leqslant 6\text{V} \end{split}$	1.485 1.47	1.5 1.5	1.515 1.53	V
		$\label{eq:alpha} \begin{split} AZ1084C\text{-}1.8,\\ I_{OUT} = 0\text{mA}, V_{IN} = 4.8\text{V},\\ 10\text{mA} \leqslant I_{OUT} \leqslant 5\text{A}, 3.3\text{V} \leqslant V_{IN} \leqslant 6\text{V} \end{split}$	1.782 1.764	1.8 1.8	1.818 1.836	v
V _{OUT}	Output Voltage	$\label{eq:azinversion} \begin{split} & AZ1084C\text{-}2.5,\\ & I_{OUT}=0\text{mA}, V_{IN}=5.5V\\ & 10\text{mA} \leqslant I_{OUT} \leqslant 5\text{A}, 4.0V \leqslant V_{IN} \leqslant 7V \end{split}$	2.475 2.45	2.5 2.5	2.525 2.55	V
		$\label{eq:azian} \begin{split} & \text{AZ1084C-3.3,} \\ & \text{I}_{\text{OUT}} = 0\text{mA}, \text{V}_{\text{IN}} = 6.3\text{V}, \\ & 10\text{mA} \leqslant \text{I}_{\text{OUT}} \leqslant 5\text{A}, 4.8\text{V} \leqslant \text{V}_{\text{IN}} \leqslant 8\text{V} \end{split}$	3.267 3.234	3.3 3.3	3.333 3.366	V
		$\label{eq:azinv} \begin{split} & \text{AZ1084C-5.0,} \\ & \text{I}_{\text{OUT}} = 0\text{mA}, \text{V}_{\text{IN}} = 8\text{V}, \\ & 10\text{mA} \leqslant \text{I}_{\text{OUT}} \leqslant 5\text{A}, 6.5\text{V} \leqslant \text{V}_{\text{IN}} \leqslant 10\text{V} \end{split}$	4.95 4.9	5 5	5.05 5.1	V
		AZ1084C-ADJ, $I_{OUT} = 10 \text{mA}, 2.85 \text{V} \leqslant \text{V}_{\text{IN}} \leqslant 10 \text{V}$	_	0.015 0.035	0.2 0.2	%
		AZ1084C-1.5, $I_{OUT} = 10$ mA, 3.0V $\leq V_{IN} \leq 10$ V	_	0.5 1	6 6	mV
	Line Regulation	$\begin{array}{l} \text{AZ1084C-1.8,}\\ \text{I}_{\text{OUT}}=10\text{mA}, 3.3\text{V} \leqslant \text{V}_{\text{IN}} \leqslant 10\text{V} \end{array}$	_	0.5 1	6 6	mV
ΔV_{OUT}		AZ1084C-2.5,	_	0.5	6	mV
		$I_{OUT} = 10mA, 4.0V \le V_{IN} \le 10V$ AZ1084C-3.3,	_	1 0.5	6 6	mV
		$\frac{I_{OUT} = 10mA, 4.8V \le V_{IN} \le 10V}{AZ1084C-5.0,}$	_	1 0.5	6 10	mV
		$\label{eq:IOUT} \begin{split} \hline I_{OUT} &= 10 \text{mA}, 6.5 \text{V} \leqslant \text{V}_{\text{IN}} \leqslant 10 \text{V} \\ \\ \text{AZ1084C-ADJ}, \end{split}$	_	1 0.1	10 0.3	%
		$0mA \leq I_{OUT} \leq 5A, V_{IN}-V_{OUT} = 3V$ AZ1084C-1.5,	_	0.2 3	0.4 15	mV
		$\begin{array}{l} 0\text{mA} \leqslant I_{\text{OUT}} \leqslant 5\text{A}, V_{\text{IN}}\text{-}V_{\text{OUT}} = 3\text{V} \\ \\ \text{AZ1084C-1.8}, \\ 0\text{mA} \leqslant I_{\text{OUT}} \leqslant 5\text{A}, V_{\text{IN}}\text{-}V_{\text{OUT}} = 3\text{V} \end{array}$	_	7 3 7	20 15 20	mV
ΔVουτ	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, $0mA \leq I_{OUT} \leq 5A, V_{IN}-V_{OUT} = 3V$	_	5 10	20 20 35	mV
VDROP	Dropout Voltage	$I_{OUT} = 4.5A, \Delta V_{REF}, \Delta V_{OUT} = 1\%$	_	1.35	1.5	v
		TO263	_	4.15	_	
θ_{JC}	Thermal Resistance (Junction to Case)	TO263-2	_	4.15	_	°C/W
		TO252-2 (3)/TO252-2 (4)/TO252-2 (5)	-	7.36	-	





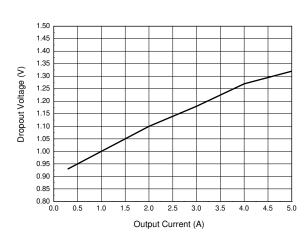
Electrical Characteristics (Cont. Typicals and limits appearing in normal type apply for $T_J = +25^{\circ}$ C. Limits appearing in **Boldface** type apply over the entire operating junction temperature range.)

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
I _{LIMIT}	Current Limit	$V_{IN}-V_{OUT} = 3V$	5.5	6.5	-	А
I _{LOAD} (MIN)	Minimum Load Current	V _{IN} = 10V (AZ1084C-ADJ)	-	3	10	mA
lQ	Quiescent Current	V _{IN} = 10V (AZ1084C)	_	5	10	mA
PSRR	Ripple Rejection	$f_{\text{RIPPLE}} = 120 \text{Hz}, C_{\text{OUT}} = 25 \mu \text{F} \text{ Tantalum},$ $I_{\text{OUT}} = 5 \text{A}, V_{\text{IN}} \cdot V_{\text{OUT}} = 3 \text{V}$	60	72	-	dB
I _{ADJ}	Adjust Pin Current	$V_{IN} = 4.25V, I_{OUT} = 10mA$	-	55	120	μA
ΔI_{ADJ}	Adjust Pin Current Change	$\begin{array}{l} 10 \text{mA} \leqslant I_{\text{OUT}} \leqslant 5\text{A}, 1.5\text{V} \leqslant (\text{V}_{\text{IN}}\text{-}\text{V}_{\text{OUT}}) \\ \leqslant 4.5\text{V} \end{array}$	-	0.2	5	μA
_	Temperature Stability	$I_{OUT} = 10 \text{mA}, V_{IN} - V_{OUT} = 1.5$	-	0.5	-	%
_	Long Term Stability	T _A = +125°C, 1000Hrs	-	0.5	-	%
_	RMS Noise (% of V _{OUT})	$10Hz \le f \le 10kHz$	-	0.003	_	%



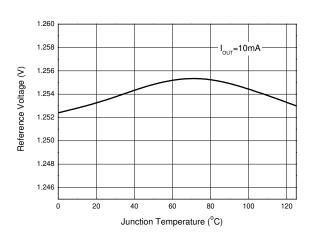


Performance Characteristics

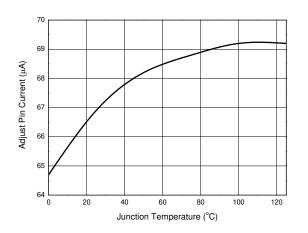


Dropout Voltage vs. Output Current

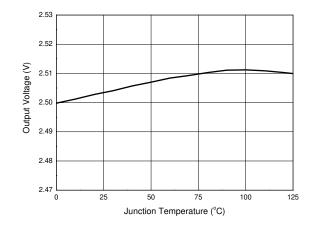
Reference Voltage vs. Junction Temperature



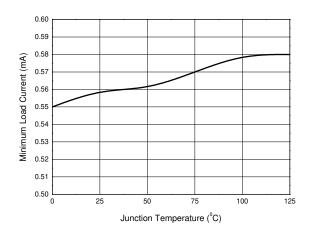
Adjust Pin Current vs. Junction Temperature



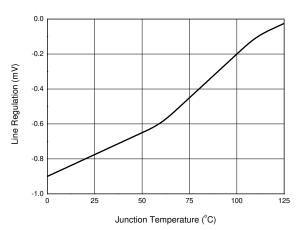
Output Voltage vs. Junction Temperature



Minimum Load Current vs. Junction Temperature



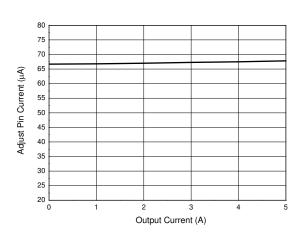
Line Regulation vs. Junction Temperature





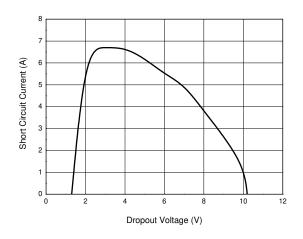


Performance Characteristics (Cont.)

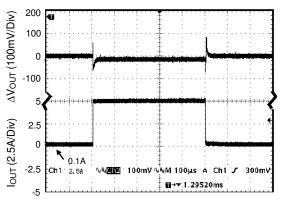


Adjust Pin Current vs. Output Current

Short Circuit Current vs. Dropout Voltage

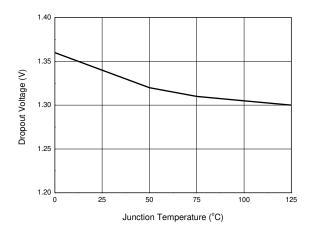


Load Transient Response (Conditions: $V_{IN} = 5.5V$, $V_{OUT} = 2.5V$, $I_{OUT} = 10mA$ to 5A, $C_{IN} = 10\mu$ F, $C_{OUT} = 10\mu$ F)

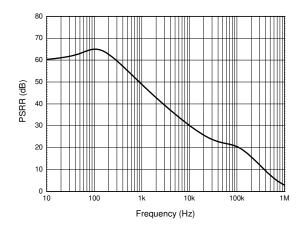


Time (100µs/Div)

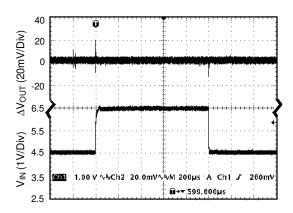
Dropout Voltage vs. Junction Temperature



PSRR vs. Frequency



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

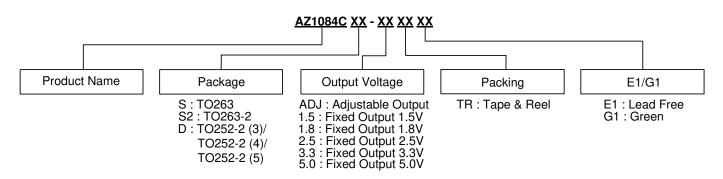


Time (200µs/Div)





Ordering Information



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

	Destaurs	Temperature	Part	Number	Marki	ng ID	Dealing
	Package	Range	Lead Free	Green	Lead Free	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
	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 Lead-free Green	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





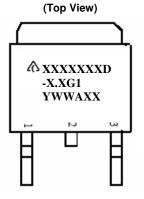
Ordering Information (Cont.)

	Deskawa	Temperature	Part N	lumber	Marki	ing ID	De alvia a
	Package	Range	Lead Free	Green	Lead Free	Green	Packing
	TO252-2 (3)/(4)/(5)	0 to +125°C	_	AZ1084CD- ADJTRG1	_	AZ1084CD- ADJG1	2500/Tape & Reel
	TO252-2 (3)/(4)/(5)	0 to +125°C	_	AZ1084CD- 1.5TRG1	-	AZ1084CD- 1.5G1	2500/Tape & Reel
Pb.	TO252-2 (3)/(4)/(5)	0 to +125°C	_	AZ1084CD- 1.8TRG1	_	AZ1084CD- 1.8G1	2500/Tape & Reel
ad-free Green	TO252-2 (3)/(4)/(5)	0 to +125°C	-	AZ1084CD- 2.5TRG1	-	AZ1084CD- 2.5G1	2500/Tape & Reel
_	TO252-2 (3)/(4)/(5)	0 to +125°C	_	AZ1084CD- 3.3TRG1	_	AZ1084CD- 3.3G1	2500/Tape & Reel
	TO252-2 (3)/(4)/(5)	0 to +125°C	_	AZ1084CD- 5.0TRG1	_	AZ1084CD- 5.0G1	2500/Tape & Reel

Marking Information

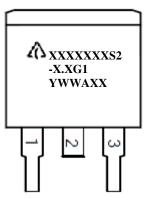
(1) TO252-2 Series

Lea



(2) TO263-2 Series





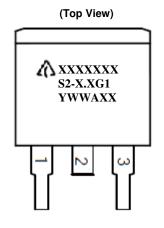
First and Second Lines: Logo and Marking ID (See Ordering Information) Third Line: Date Code Y: Year WW: Work Week of Molding A: Assembly House Code XX: 7th and 8th Digits of Batch Number

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



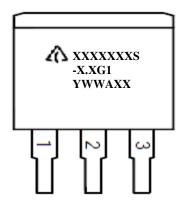


Marking Information (Cont.)



(3) TO263 Series

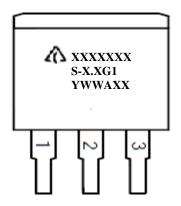
(Top View)



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: 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

(Top View)

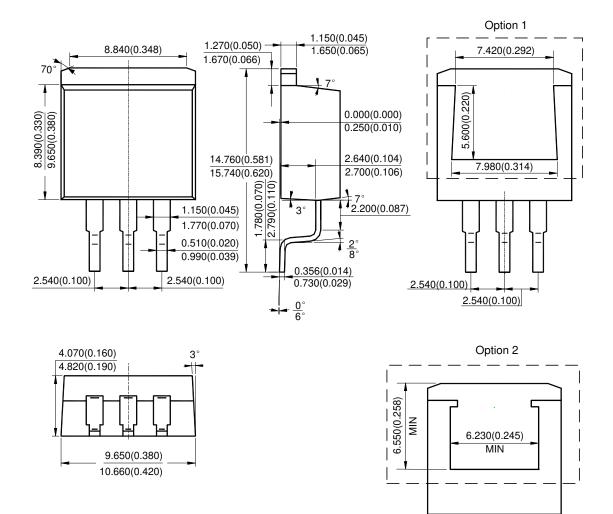


First and Second Lines: Logo and Marking ID (See Ordering Information) Third Line: Date Code Y: Year WW: Work Week of Molding A: Assembly House Code XX: 7th and 8th Digits of Batch Number





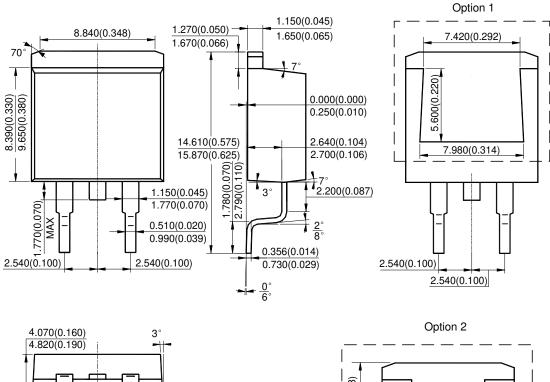
(1) Package Type: TO263

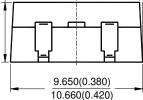


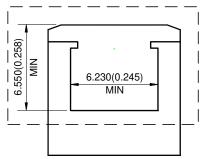




(2) Package Type: TO263-2



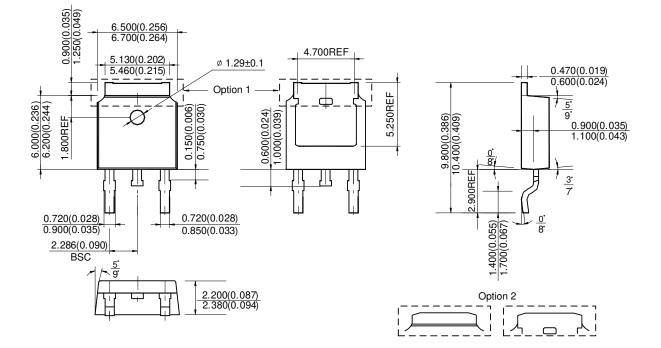








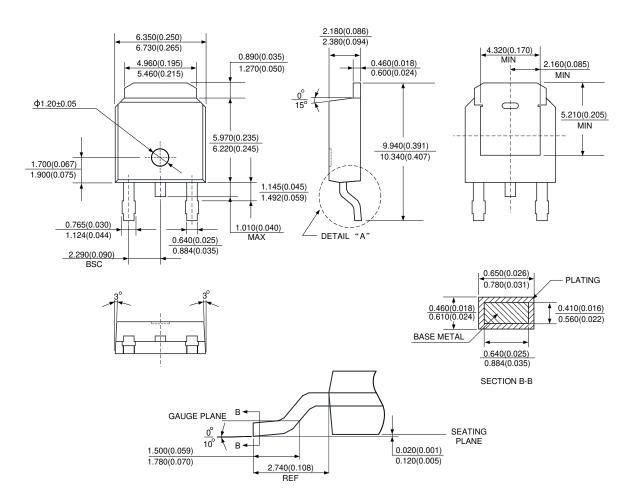
(3) Package Type: TO252-2 (3)







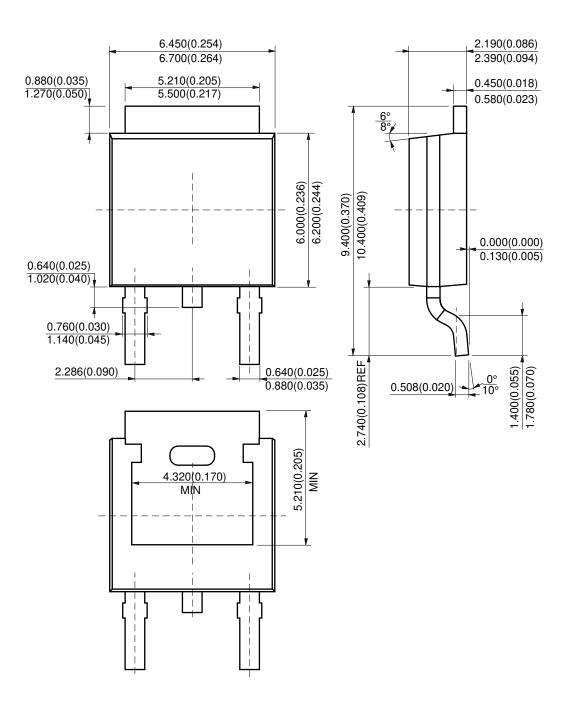
(4) Package Type: TO252-2 (4)







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

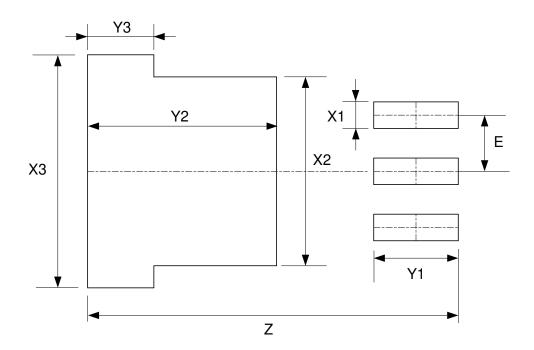






Suggested Pad Layout

(1) Package Type: TO263

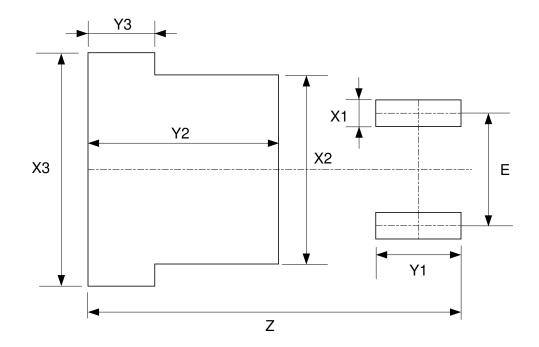


Dimensions	Z	X1	X2	X3
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	16.760/0.660	1.200/0.047	8.540/0.336	10.540/0.415
Dimensions	Y1	Y2	Y3	E
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	3.830/0.151	8.560/0.337	3.000/0.118	2.540/0.100





(2) Package Type: TO263-2

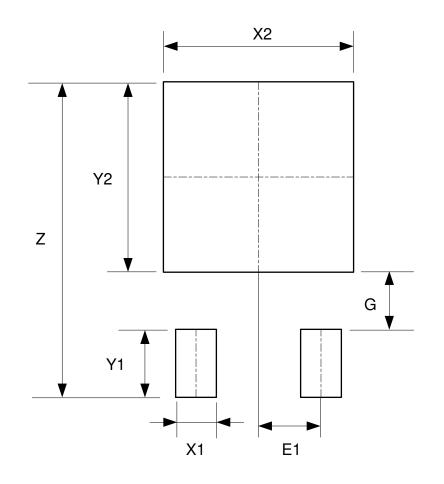


Dimensions	Z	X1	X2	X3
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	16.760/0.660	1.200/0.047	8.540/0.336	10.540/0.415
Dimensions	Y1	Y2	Y3	E
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	3.830/0.151	8.560/0.337	3.000/0.118	5.080/0.200





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

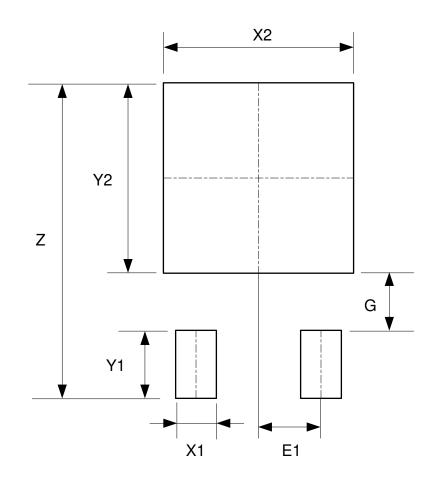


Dimensions	Z	X1	X2=Y2	Y1	G	E1
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	11.600/0.457	1.500/0.059	7.000/0.276	2.500/0.098	2.100/0.083	2.300/0.091





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

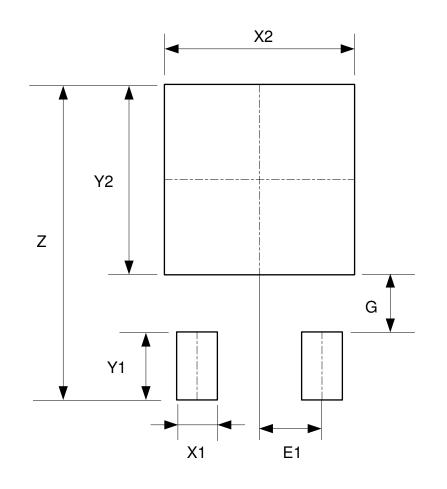


Dimensions	Z	X1	X2=Y2	Y1	G	E1
	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)	(mm)/(inch)
Value	11.600/0.457	1.500/0.059	7.000/0.276	2.500/0.098	2.100/0.083	2.300/0.091





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



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





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