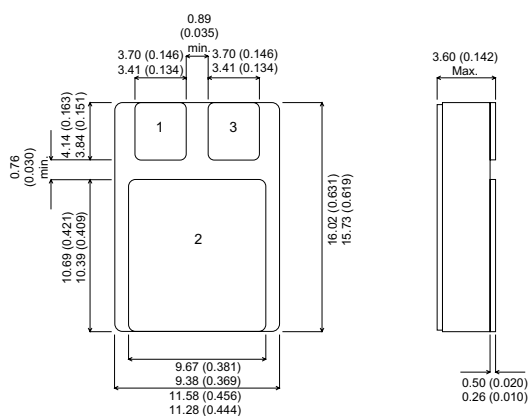
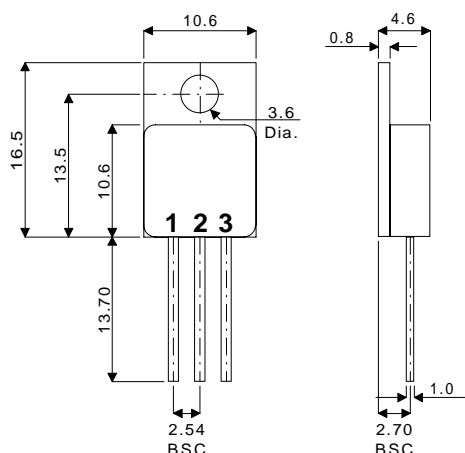


MECHANICAL DATA

Dimensions in mm

**8 VOLT POSITIVE
VOLTAGE REGULATOR**



PIN 1 - Input PIN 2 -Ground PIN 3 - Output

TO220M - TO220 Metal Package - Isolated
SMD1 - Ceramic Surface Mount Package
 Also available in TO39 Package.

FEATURES

- HERMETIC TO220 METAL OR CERAMIC SURFACE MOUNT PACKAGES
- SCREENING OPTIONS AVAILABLE
- ALL LEADS ISOLATED FROM CASE (METAL PACKAGE)
- 8 VOLT REGULATOR
- OUTPUT CURRENT UP TO 1.5A
- THERMAL OVERLOAD PROTECTION
- SHORT CIRCUIT PROTECTION
- OUTPUT TRANSISTOR SOA PROTECTION

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

V_i	DC Input Voltage	35V
I_o	Output Current	Internally limited
P_D	Power Dissipation	Internally limited
T_j	Junction Temperature	150°C
T_{stg}	Storage Temperature	-65 to 150°C

ELECTRICAL CHARACTERISTICS ($T_{\text{case}} = 25^{\circ}\text{C}$ unless stated)

OUTPUT VOLTAGE		8			
INPUT VOLTAGE (unless otherwise specified)		14			
Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O Output Voltage	$T_j = 25^{\circ}\text{C}$	7.7	8	8.3	V
	$I_O = 5\text{mA to } 1\text{A}$ $P_O \leq 15\text{W}$	7.6	8 ($V_i = 11.6$ to 23V)	8.4	
ΔV_O Line Regulation	$T_j = 25^{\circ}\text{C}$			80 ($V_i = 10.5$ to 25V)	mV
				40 ($V_i = 11$ to 17V)	
ΔV_O Load Regulation	$I_O = 5\text{mA to } 1.5\text{A}$ $T_j = 25^{\circ}\text{C}$			100	mV
	$I_O = 250$ to 750 mA $T_j = 25^{\circ}\text{C}$			50	
I_d Quiescent Current	$T_j = 25^{\circ}\text{C}$			8	mA
ΔI_d Quiescent Current Change	$I_O = 5\text{mA to } 1\text{A}$			0.5	mA
				1 ($V_i = 11.5$ to 25V)	
$\frac{\Delta V_O}{\Delta T}$ Output Voltage Drift	$I_O = 5\text{mA}$		-1		mV / $^{\circ}\text{C}$
e_N Output Noise Voltage	$B = 10\text{Hz to } 100\text{kHz}$ $T_j = 25^{\circ}\text{C}$			40	μV
SVR Supply Voltage Rejection	$f = 100\text{Hz}$	62 ($V_i = 11.5$ to 21.5V)			dB
V_d Dropout Voltage	$I_O = 1\text{A}$ $T_j = 25^{\circ}\text{C}$ $\Delta V_O = 100\text{mV}$		2		V
I_{sc} Short Circuit Current	$V_i = 35\text{V}$ $T_j = 25^{\circ}\text{C}$		750		mA
I_{scp} Short Circuit Peak Current	$T_j = 25^{\circ}\text{C}$		2.2		A

THERMAL DATA

$R_{\text{THj-case}}$	Thermal Resistance Junction – Case	Max. $3^{\circ}\text{C} / \text{W}$
$R_{\text{THj-amb}}$	Thermal Resistance Junction – Ambient	Max. $50^{\circ}\text{C} / \text{W}$

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.