

TECHNICAL DATA
DATASHEET 4742, REV. A**HERMETIC POWER SCHOTTKY RECTIFIER**
200°C Maximum Operation Temperature**DESCRIPTION:** A 100-VOLT, 35 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.**MAXIMUM RATINGS**ALL RATINGS ARE @ $T_C = 25\text{ }^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

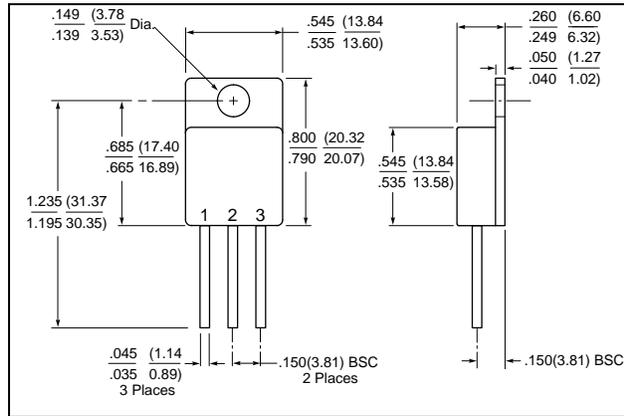
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (@ $T_C=100\text{ }^\circ\text{C}$) (Single)	I_O	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=8.3\text{ms}$, Sine)	I_{FSM}	150	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_f=5\text{V}$)	C_T	3000	pF
MAXIMUM THERMAL RESISTANCE (Single)	$R_{\theta JC}$	0.33	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to +200	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +200	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

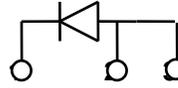
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 35\text{ Amps}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	V_f	0.97 0.79	Volts
MAXIMUM REVERSE CURRENT (I_r @ 100 V PIV) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	I_r	2 48	mA

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Mechanical Dimensions: In inches / mm



SINGLE



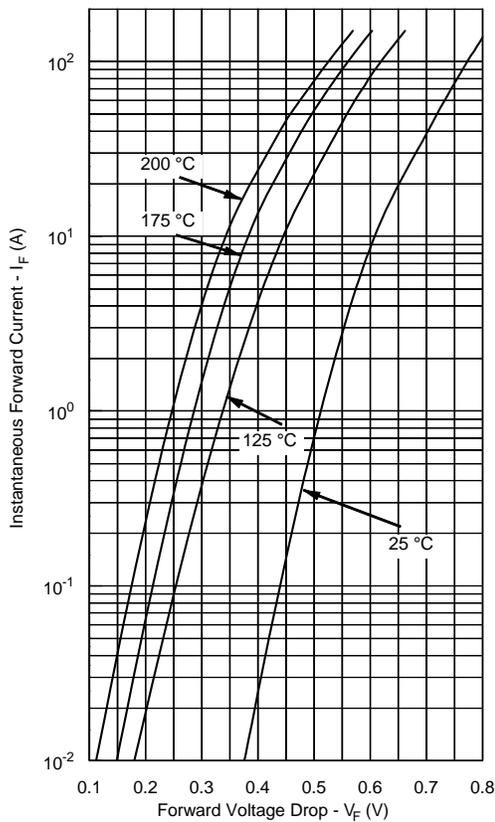
TO-254

PINOUT TABLE

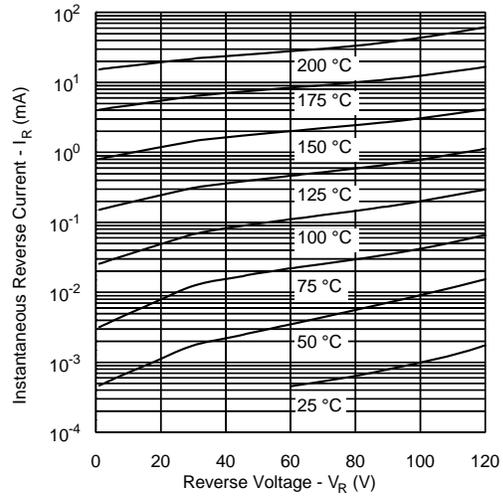
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

Curves shown are for bare die only.

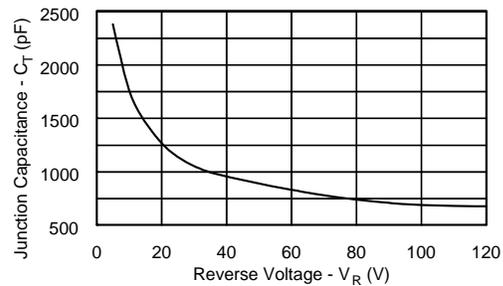
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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