

TECHNICAL DATA DATASHEET 4741, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER 175°C Maximum Operation Temperature

DESCRIPTION: A 150-VOLT, 35 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @ T_C = 25 °C UNLESS OTHERWISE SPECIFIED.

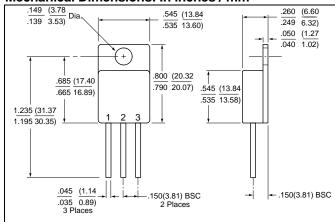
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	150	Volts
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Single)	Io	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	1650	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	3000	pF
MAXIMUM THERMAL RESISTANCE (Single)	R _{eJC}	0.33	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 35 Amps)			
T _J = 25 °C	V_{f}	1.01	Volts
T _J = 125 °C		0.83	
MAXIMUM REVERSE CURRENT (I _r @ 150 V PIV)			
T _J = 25 °C	I _r	3	mA
T _J = 125 °C		48	

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Mechanical Dimensions: In inches / mm





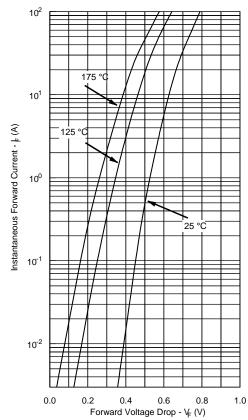
TO-254

PINOUT TABLE

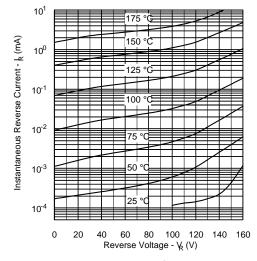
TYPE	_ PIN 1	_ PIN 2	_ PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

Curves shown are for bare die only.

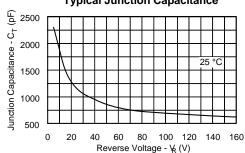
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



SENSITRON

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