

TECHNICAL DATA DATASHEET 4739, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER 175°C Maximum Operation Temperature

DESCRIPTION: A 45-VOLT, 35 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.

MAXIMUM RATINGS

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

ALL TO CHILLS OF THE LOCAL CONTROL OF LOW LESS.				
RATING	SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE	PIV	45	Volts	
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Single, Doubler)	Io	35	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	150	Amps	
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	4800	pF	
MAXIMUM THERMAL RESISTANCE (per leg)	$R_{ heta JC}$	0.62	°C/W	
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C	
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C	

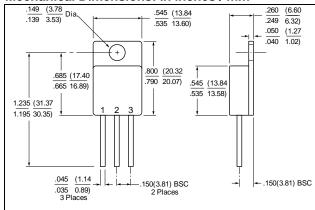
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 35 Amps)				
	T _J = 25 °C	V_{f}	0.73	Volts
	T _J = 125 °C		0.62	
MAXIMUM REVERSE CURRENT (I _r @ 45 V PIV)				
	T _J = 25 °C	l _r	2.4	mA
	T _{.1} = 125 °C		90	

SENSITRON

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Mechanical Dimensions: In inches / mm



SINGLE



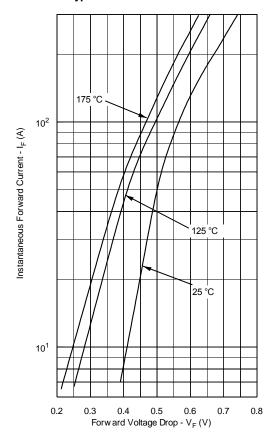
TO-254

PINOUT TABLE

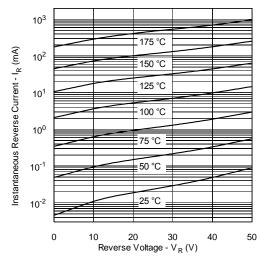
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

Curves shown are for bare die only.

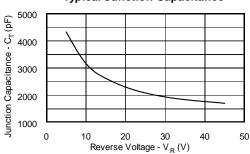
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



SENSITRON

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