

TECHNICAL DATA DATA SHEET 4801, REV. A

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.

RATING		MAX.	UNITS
PEAK INVERSE VOLTAGE		45	Volts
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Single, Doubler)	Io	35	Amps
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Common Cathode, Common Anode)	Io	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	300	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	1400	pF
MAXIMUM THERMAL RESISTANCE (Per leg)		2	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE		-55 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to + 175	°C

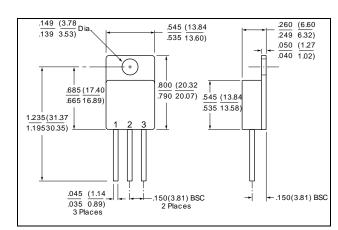
ELECTRICAL CHARACTERISTICS

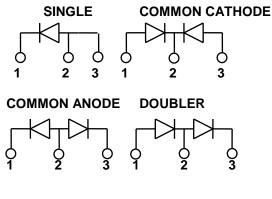
CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 35 Amps)				
	T _J = 25 °C	V_{f}	0.97	Volts
	T _J = 125 °C		0.91	
MAXIMUM REVERSE CURRENT (I _r @ 45 V PIV)				
	T _J = 25 °C	l _r	0.5	mA
	T _J = 125 °C		20	
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SENSITRON

DATA SHEET 4801, REV. A

Mechanical Dimensions: In inches / mm





TO-254

PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER, COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER, DOUBLER (D)	ANODE	CATHODE/ ANODE	CATHODE

Curves shown are for bare die only.

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