

TECHNICAL DATA DATA SHEET 4803, REV. -

# HERMETIC POWER SCHOTTKY RECTIFIER 150°C Maximum Operation Temperature

**DESCRIPTION:** A 30-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	30	Volts
MAXIMUM DC OUTPUT CURRENT (@ T <sub>C</sub> =100 <sup>O</sup> C) (Single, Doubler)	Io	35	Amps
MAXIMUM DC OUTPUT CURRENT (@ T <sub>C</sub> =100 <sup>O</sup> C) (Common Cathode, Common Anode)	lo	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I <sub>FSM</sub>	150	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	Ст	2635	pF
MAXIMUM THERMAL RESISTANCE (Single)	$R_{ heta JC}$	1.25	°C/W
MAXIMUM THERMAL RESISTANCE (Common Cathode, Common Anode, Doubler)	R <sub>eJC</sub>	0.63	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-55 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to + 150	°C

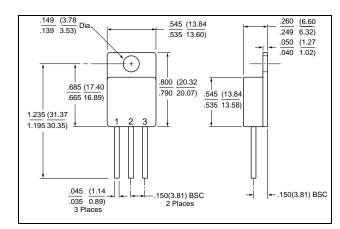
# **ELECTRICAL CHARACTERISTICS**

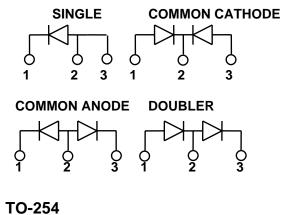
CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 35 Amps)				
	$T_J = 25  ^{\circ}C$	$V_{f}$	0.81	Volts
	T <sub>J</sub> = 125 °C		0.84	
MAXIMUM REVERSE CURRENT (Ir @ 30 V PIV)				
	$T_J = 25  ^{\circ}C$	l <sub>r</sub>	0.4	mA
	T <sub>J</sub> = 125 °C		230	

# **SENSITRON**

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# Mechanical Dimensions: In inches / mm





# **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.



#### **TECHNICAL DATA**

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