

TECHNICAL DATA DATA SHEET 5480, REV. -

# POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: 45 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-1/1B PACKAGE.

MAXIMUM RATINGS	ALL RATINGS ARE @ $T_C$ = 25 °C UNLESS OTHERWISE SPECIFIED.			
RATING		SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE		PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c=100$ °C)		Ι <sub>ο</sub>	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT		I <sub>FSM</sub>	280	Amps
(t=8.3ms, Sine)				
MAXIMUM JUNCTION CAPACITANCE	(V <sub>r</sub> =5V)	C <sub>T</sub>	800	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)		$R_{ ext{ heta}JC}$	1.7	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATU	IRE RANGE	Top/Tstg	-65 to + 150	°C

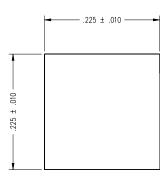
### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Puls	ed (I <sub>f</sub> = 15 Amps)			
	T <sub>J</sub> = 25 °C	V <sub>f</sub>	0.56	Volts
	T <sub>J</sub> = 125 °C		0.51	
MAXIMUM REVERSE CURRENT	(I <sub>r</sub> @ 45V)			
	T <sub>J</sub> = 25 °C	l <sub>r</sub>	1.5	mA
	T <sub>J</sub> = 125 °C		70	

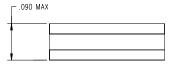


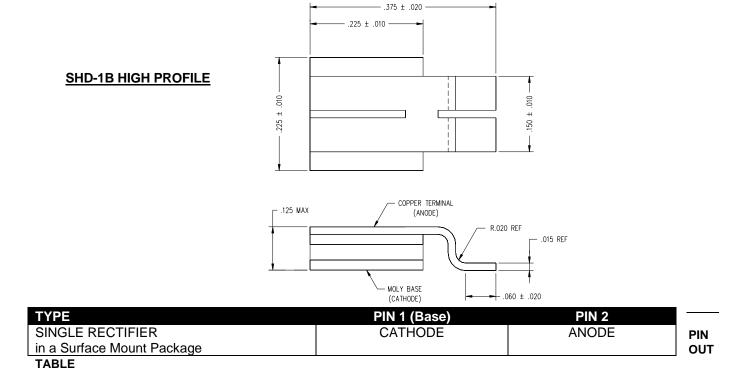
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### **MECHANICAL DIMENSIONS: In Inches / mm**



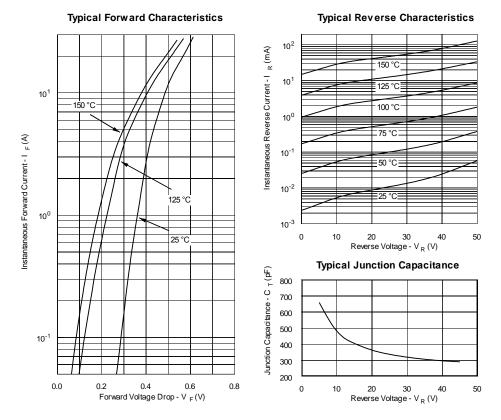
**SHD-1 HIGH PROFILE** 





## SENSITRON SEMICONDUCTOR

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**Note:** V<sub>F</sub> Curves are shown for die only.

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