SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 4048, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

DESCRIPTION: A 45-VOLT, 120 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC CERAMIC SHD-3/3A/3B PACKAGE.

MAXIMUM RATINGSALL RATINGS ARE @ Tc = 25 °C UNIT	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 $^{\circ}$ C)	Ι _ο	120	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I _{FSM}	1650	Amps	
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	4800	pF	
MAXIMUM THERMAL RESISTANCE	R _{0JC}	0.20	°C/W	
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C	

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	(I _f = 120 Amps)			
	T _J = 25 °C	V _f	0.66	Volts
	T _J = 125 °C	•1	0.59	
MAXIMUM REVERSE CURRENT (Ir @ 45V PIV)				
	T _J = 25 °C	l _r	2.4	mA
	T _J = 125 °C		90	

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MECHANICAL DIMENSIONS: In Inches / mm





TECHNICAL DATA

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