SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 1083, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

DESCRIPTION: A 100 VOLT, 60 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD5/5A/5B PACKAGE.

MAXIMUM RATINGS ALL RATINGS ARE @ T_c = 25 °C UNLESS OTHERWISE SPECIFIED. RATING UNITS SYMBOL MAX. PEAK INVERSE VOLTAGE PIV 100 Volts MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ Tc=100 °C) ю 60 Amps MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT 570 Amps **I**FSM (t=8.3ms, Sine Wave) (per leg) MAXIMUM JUNCTION CAPACITANCE (Vr=5V) Ст 1200 pF MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode) 7.07 Rejc °C/W MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE -65 to °C Top/Tstg + 175

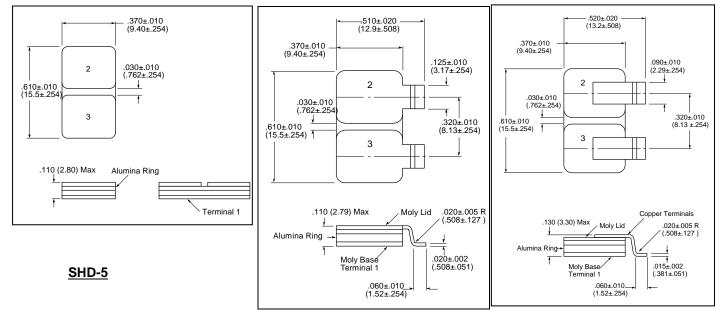
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 30 \text{ Amps}$) (per leg)			
TJ=25 ℃	Vf	0.84	Volts
T _J = 125 °C		0.68	
MAXIMUM REVERSE CURRENT (Ir @ 100 V PIV) (per leg)			
TJ=25 ℃	Ir	0.75	mA
T _J = 125 °C		15	

SHD118444 SHD118444PA SHD118444PB

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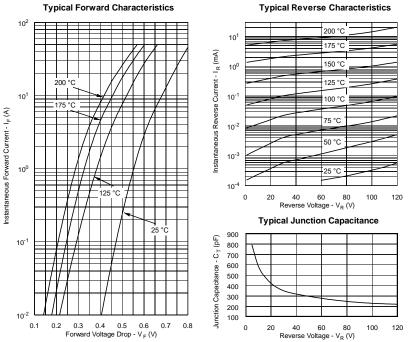


MECHANICAL DIMENSIONS: In Inches / mm

SHD-5A

SHD-5B

PINOUT TABLE			
DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE (P)	COMMON CATHODE	ANODE	ANODE



PART ORI	DERING INFORMATION:
	SHD <u>120444</u> P <u>XXX</u> <u>X</u>
	★
	Part Number
Package:	
Suffix	Package Name:
(blank)	SHD-5
Α	SHD-5A
В	SHD-5B
Screenina	Level (blank is no screening):
Suffix	Screened in Accordance with:
blank	No screening level
S	MIL-PRF-19500, TXV Level
SS	MIL-PRF-19500, S Level
	,
QCI (blank	is no QCI):
Suffix	Inspection in Accordance with:
blank	
Q	MIL-PRF-19500 QCI
-	

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