<u>SENSITRON</u> SEMICONDUCTOR

DATA SHEET 5091, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

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

MAXIMUM RATINGS

ALL RATINGS ARE @ $T_c = 25$ °C UNLESS OTHERWISE SPECIFIED.

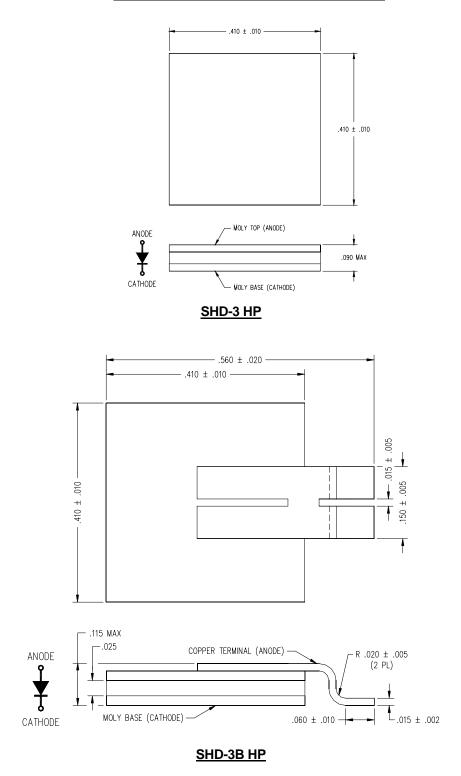
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c=100$ °C)	Ι _ο	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I _{FSM}	1650	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	4800	pF
MAXIMUM THERMAL RESISTANCE	$R_{ ext{ heta}JC}$	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 ($I_f = 120 \text{ Amps}$)			
T _J = 25 °C	V _f	0.66	Volts
T _J = 125 °C	-1	0.59	
MAXIMUM REVERSE CURRENT (I _r @ 45V PIV)			
T _J = 25 °C	l _r	2.4	mA
T _J = 125 °C		90	

TECHNICAL DATA DATA SHEET 5091, REV. -

MECHANICAL DIMENSIONS: In Inches / mm



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