

TECHNICAL DATA DATA SHEET 705, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

DESCRIPTION: A 100 VOLT, 30 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-3/3A/3B PACKAGE.

MAXIMUM RATINGS

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=10ms, Sine)	I _{FSM}	570	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	1000	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.50	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C

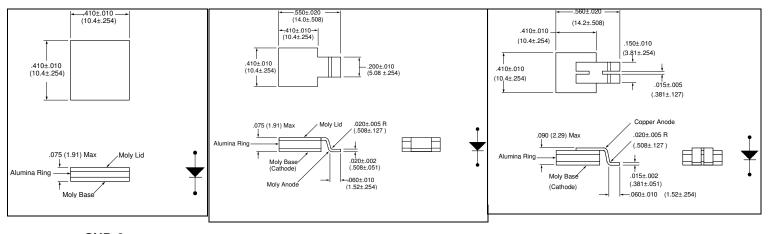
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 30 Amps)			
T _J = 25 °C	V_{f}	0.84	Volts
T _J = 125 °C		0.68	
MAXIMUM REVERSE CURRENT (I, @ 100 V PIV)			
T _J = 25 °C	I _r	0.75	mA
T _J = 125 °C		15	

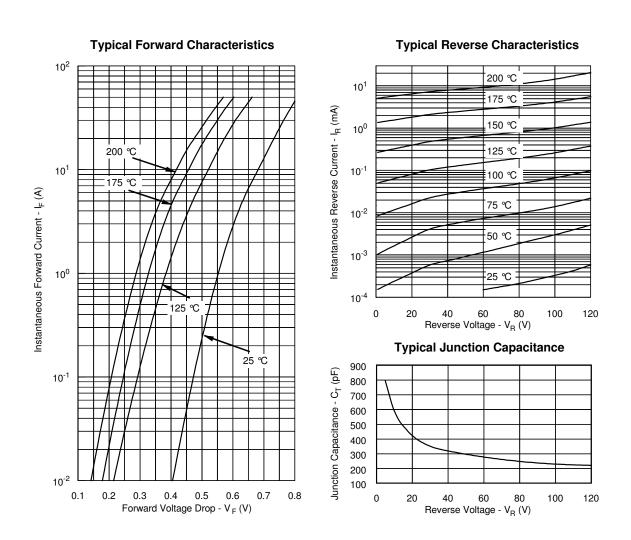
SENSITRON

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MECHANICAL DIMENSIONS: In Inches / mm



SHD-3A SHD-3B





TECHNICAL DATA

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