

TECHNICAL DATA  
 DATA SHEET 191, REV. -

## HERMETIC POWER ULTRAFAST RECTIFIER

**DESCRIPTION:** A 400 VOLT, 8.0 AMP, HERMETIC POWER ULTRAFAST RECTIFIER IN A SHD-1/1A/1B PACKAGE.

### MAXIMUM RATINGS

ALL RATINGS ARE @  $T_A = 25\text{ }^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	400	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100\text{ }^\circ\text{C}$ )	$I_o$	8.0	Amps
MAX. REVERSE RECOVERY TIME $t_{rr}$ conditions; $I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$	$t_{rr}$	45	ns
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	1.3	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/ $T_{stg}$	-55 to +175	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $T_C = 25\text{ }^\circ\text{C}$ ( $I_f = 8.0$ Amps)	$V_f$	1.20	Volts
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $T_C = 125\text{ }^\circ\text{C}$ ( $I_f = 8.0$ Amps)	$V_f$	1.10	Volts
MAXIMUM REVERSE CURRENT PIV $T_C = 25\text{ }^\circ\text{C}$ $I_{rr}$ @ 400	$I_{rr}$	25	$\mu\text{A}$
MAXIMUM REVERSE CURRENT PIV $T_C = 125\text{ }^\circ\text{C}$ $I_{rr}$ @ 400	$I_{rr}$	10	mA

MECHANICAL DIMENSIONS: In Inches / mm

