

TECHNICAL DATA DATA SHEET 250, REV. C

HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

DESCRIPTION: A 100 VOLT, 120 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-3/3A/3B PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @ $T_C = 25 \degree C$ UNLESS OTHERWISE SPECIFIED.

| RATING | SYMBOL | MAX. | UNITS |
|---|------------------|-----------------|-------|
| PEAK INVERSE VOLTAGE | PIV | 100 | Volts |
| MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_{C} =100 $^{\circ}$ C) | Ι _Ο | 120 | Amps |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=10ms, Sine) | I _{FSM} | 1400 | Amps |
| MAXIMUM JUNCTION CAPACITANCE (V _r =5V) | C _T | 3000 | pF |
| MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode) | $R\theta_{JC}$ | 0.20 | °C/W |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE | Top/Tstg | -65 to + 200 | °C |

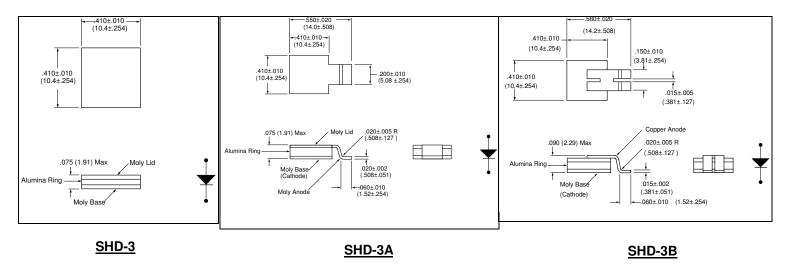
ELECTRICAL CHARACTERISTICS

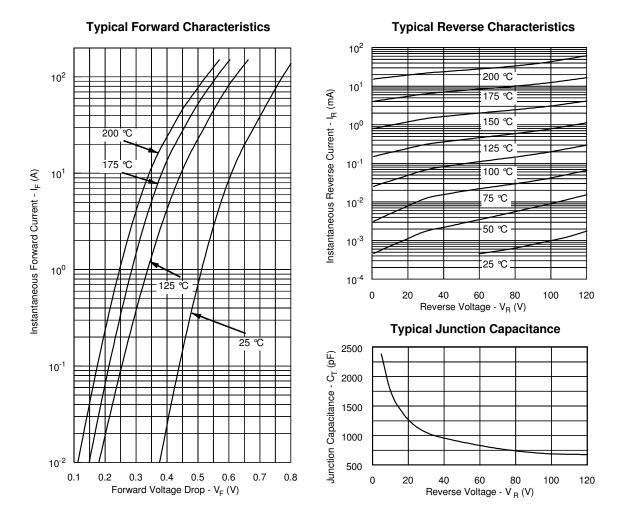
| CHARACTERISTIC | | | |
|---|----------------|------|-------|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 120 \text{ Amps}$) | | | |
| T _J = 25 °C | V _f | 0.87 | Volts |
| T | | 0.72 | |
| MAXIMUM REVERSE CURRENT (Ir @ 100 V PIV) | | | |
| T _J = 25 °C | l _r | 1.0 | mA |
| T _J = 125 °C | | 6.0 | |

SHD114644 SHD114644A SHD114644B

SENSITRON DATA SHEET 250, REV. C

MECHANICAL DIMENSIONS: In Inches / mm







TECHNICAL DATA

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