

TECHNICAL DATA
DATA SHEET 4055, REV. -**HERMETIC POWER SCHOTTKY RECTIFIER**
175°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 @ $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

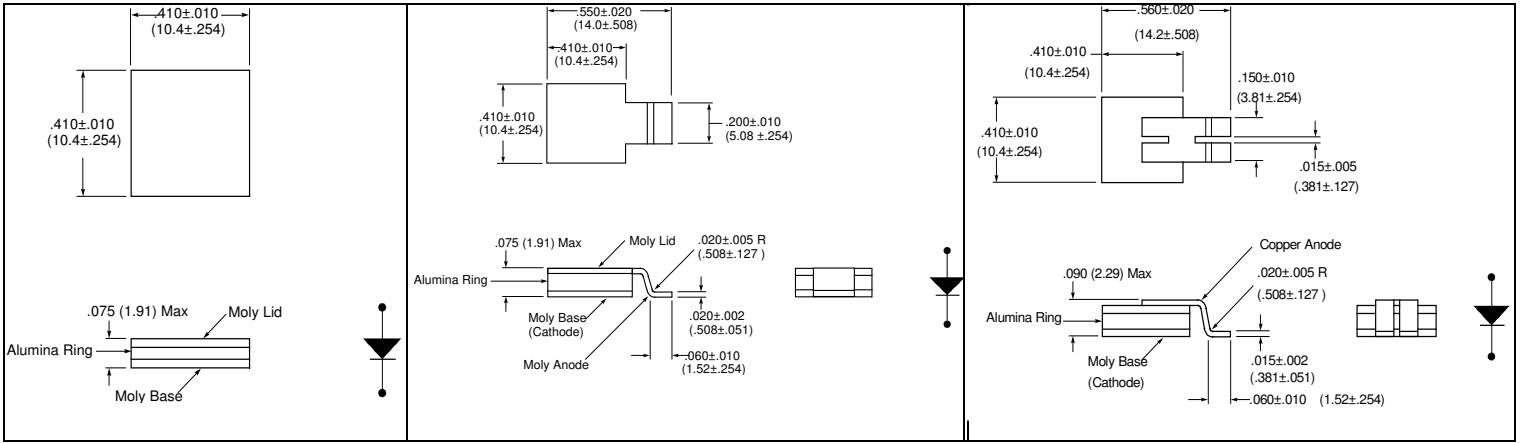
| RATING | SYMBOL | MAX. | UNITS |
|--|----------------|--------------|---------------------------|
| PEAK INVERSE VOLTAGE | PIV | 100 | Volts |
| MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100^\circ\text{C}$) | I_o | 120 | Amps |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=10\text{ms}$, Sine) | I_{FSM} | 1400 | Amps |
| MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$) | C_T | 3000 | pF |
| MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode) | $R\theta_{JC}$ | 0.20 | $^\circ\text{C}/\text{W}$ |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE | Top/Tstg | -65 to + 175 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS

| CHARACTERISTIC | | | |
|--|-------|---------------------------|------|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 120$ Amps) | V_f | $T_J = 25^\circ\text{C}$ | 0.87 |
| | | $T_J = 125^\circ\text{C}$ | 0.72 |
| MAXIMUM REVERSE CURRENT (I_r @ 100 V PIV) | I_r | $T_J = 25^\circ\text{C}$ | 2 |
| | | $T_J = 125^\circ\text{C}$ | 30 |

SENSITRON
DATA SHEET 4055, REV. -

MECHANICAL DIMENSIONS: In Inches / mm



SHD-3

SHD-3A

SHD-3B

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