

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

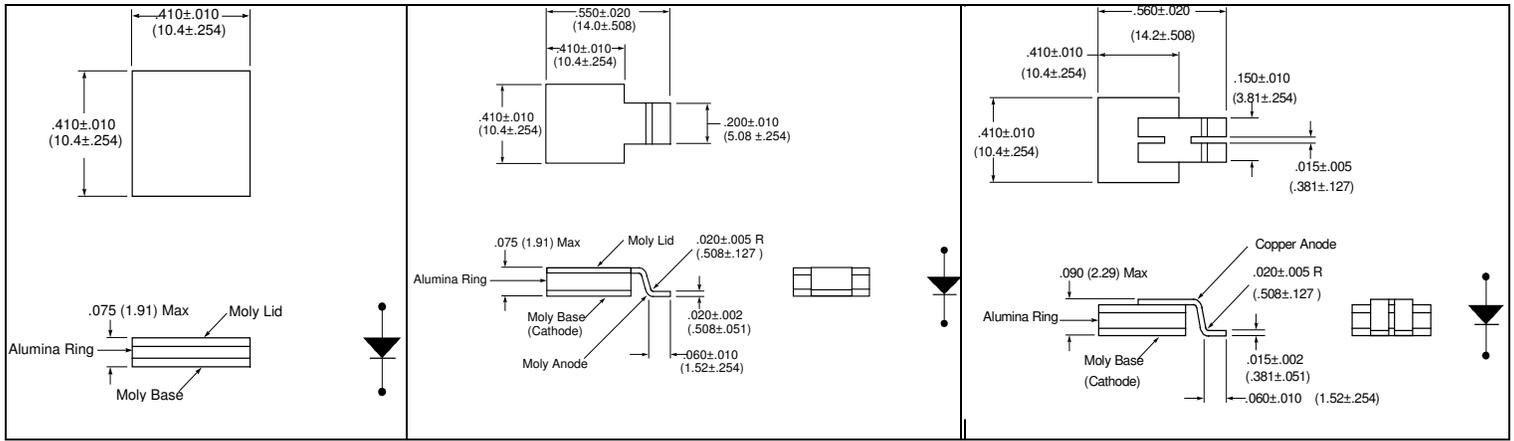
ALL RATINGS ARE @  $T_C = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

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)			
$T_J = 25^\circ\text{C}$	$V_f$	0.87	Volts
$T_J = 125^\circ\text{C}$		0.72	
MAXIMUM REVERSE CURRENT ( $I_r$ @ 100 V PIV)			
$T_J = 25^\circ\text{C}$	$I_r$	2	mA
$T_J = 125^\circ\text{C}$		30	

**MECHANICAL DIMENSIONS: In Inches / mm**



**SHD-3**

**SHD-3A**

**SHD-3B**

**TECHNICAL DATA**

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