

TECHNICAL DATA
DATASHEET 4770, REV.-A**HERMETIC POWER SCHOTTKY RECTIFIER****DESCRIPTION:** A 150 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC LCC-3P PACKAGE.**MAXIMUM RATINGS**ALL RATINGS ARE @ $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

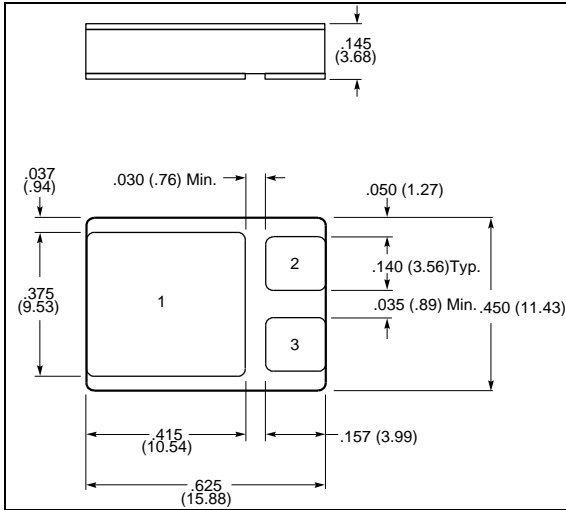
| RATING | SYMBOL | MAX. | UNITS |
|--|------------------|-----------------|--------------------|
| PEAK INVERSE VOLTAGE | PIV | 150 | Volts |
| MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100^\circ\text{C}$) (Single) | I_o | 45 | Amps |
| MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100^\circ\text{C}$) (Common Cathode) | I_o | 45 | Amps |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine) | I_{FSM} | 1650 | Amps |
| MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$) | C_T | 3000 | pF |
| MAXIMUM THERMAL RESISTANCE (per leg) | $R_{\theta JC}$ | 0.57 | $^\circ\text{C/W}$ |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE | T_{op}/T_{stg} | -65 to + 175 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS

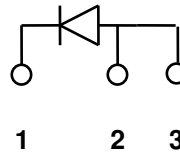
| CHARACTERISTIC | | | |
|--|-------|--------------|-------|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 45$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ | V_f | 0.96 0.77 | Volts |
| MAXIMUM REVERSE CURRENT ($I_r @ 150$ V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ | I_r | 3 48 | mA |

TECHNICAL DATA
DATASHEET 4770, REV. -A

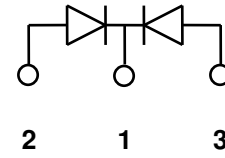
MECHANICAL DIMENSIONS: IN Inches / mm



SINGLE



COMMON CATHODE

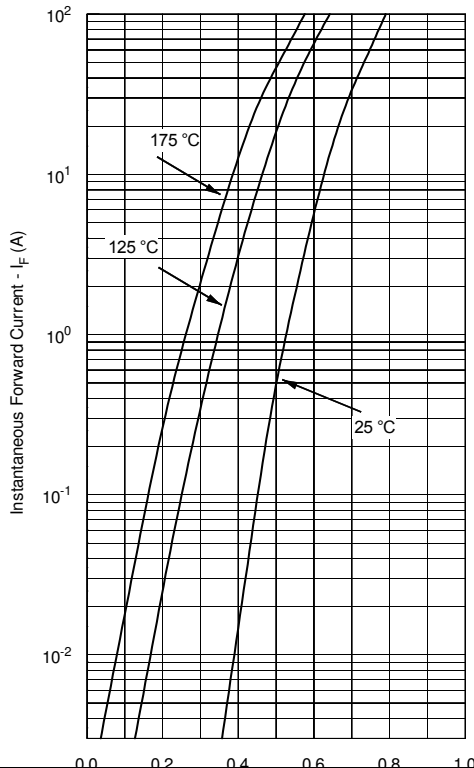


LCC-3P

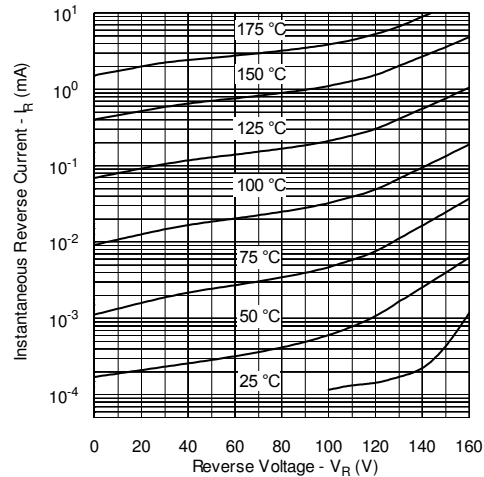
PINOUT TABLE

| DEVICE TYPE | PIN 1 | PIN 2 | PIN 3 |
|------------------|----------------|---------|---------|
| SINGLE RECTIFIER | CATHODE | ANODE | ANODE |
| COMMON CATHODE | COMMON CATHODE | ANODE 1 | ANODE 2 |

Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance

