## HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

DESCRIPTION: A 45 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC CERAMIC LCC3P PACKAGE.

| RATING | SYMBOL | MAX. | UNITS |
| :---: | :---: | :---: | :---: |
| PEAK INVERSE VOLTAGE | PIV | 45 | Volts |
| MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $\mathrm{T}_{\mathrm{C}}=100{ }^{\circ} \mathrm{C}$ ) | $\mathrm{I}_{0}$ | 45 | Amps |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $\mathrm{t}=8.3 \mathrm{~ms}$, Sine) | $\mathrm{I}_{\text {FSM }}$ | 200 | Amps |
| MAXIMUM JUNCTION CAPACITANCE ( $\left.\mathrm{V}_{\mathrm{r}}=5 \mathrm{~V}\right)$ | $\mathrm{C}_{\mathrm{T}}$ | 2400 | pF |
| MAXIMUM THERMAL RESISTANCE | $\mathrm{R}_{\text {өJC }}$ | 1.07 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE | Top/Tstg | $\begin{aligned} & -65 \text { to } \\ & +150 \end{aligned}$ | ${ }^{\circ} \mathrm{C}$ |

## ELECTRICAL CHARACTERISTICS

| CHARACTERISTIC |  | SYMBOL | MAX. | UNITS |
| :--- | :--- | :---: | :---: | :---: |
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed | $\left(\mathrm{I}_{\mathrm{f}}=45 \mathrm{Amps}\right)$ |  |  |  |
|  | $\mathrm{T}_{J}=25^{\circ} \mathrm{C}$ | $\mathrm{V}_{\mathrm{f}}$ | 0.66 | Volts |
|  | $\mathrm{T}_{\mathrm{J}}=125^{\circ} \mathrm{C}$ |  | 0.57 |  |
| MAXIMUM REVERSE CURRENT | $\left(\mathrm{I}_{\mathrm{r}} @ 45 \mathrm{~V}\right.$ PIV $)$ |  |  |  |
|  | $\mathrm{T}_{J}=25^{\circ} \mathrm{C}$ | $\mathrm{I}_{\mathrm{r}}$ | 4.5 | mA |
|  | $\mathrm{~T}_{\mathrm{J}}=125^{\circ} \mathrm{C}$ |  | 210 |  |

## TECHNICAL DATA <br> DATA SHEET 983, REV. A

## MECHANICAL DIMENSIONS: In Inches / mm



PINOUT TABLE

| TYPE | PIN 1 | PIN 2 | PIN 3 |
| :--- | :---: | :---: | :---: |
| SINGLE RECTIFIER | CATHODE | ANODE | ANODE |

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