# HERMETIC POWER SCHOTTKY RECTIFIER <br> Low Reverse Leakage $175{ }^{\circ} \mathrm{C}$ Operating Temperature 

DESCRIPTION: 60 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A SHD-1/1B PACKAGE.

MAXIMUM RATINGS
ALL RATINGS ARE @ $\mathrm{T}_{\mathrm{C}}=25^{\circ} \mathrm{C}$ UNLESS OTHERWISE SPECIFIED.

| RATING | SYMBOL | MAX. | UNITS |
| :---: | :---: | :---: | :---: |
| PEAK INVERSE VOLTAGE | PIV | 60 | Volts |
| MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $\mathrm{T}_{\mathrm{C}}=100{ }^{\circ} \mathrm{C}$ ) | lo | 15 | Amps |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $\mathrm{t}=8.3 \mathrm{~ms}$, Sine) | $\mathrm{I}_{\text {FSM }}$ | 280 | Amps |
| MAXIMUM JUNCTION CAPACITANCE ( $\left.\mathrm{V}_{\mathrm{r}}=5 \mathrm{~V}\right)$ | $\mathrm{C}_{\mathrm{T}}$ | 720 | pF |
| MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode) | $\mathrm{R}_{\text {өJC }}$ | 0.85 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE | Top/Tstg | $\begin{aligned} & -65 \text { to } \\ & +175 \end{aligned}$ | ${ }^{\circ} \mathrm{C}$ |

## ELECTRICAL CHARACTERISTICS

CHARACTERISTIC

| MAXIMUM FORWARD VOLTAGE DROP, Pulsed | $\left(\mathrm{I}_{\mathrm{f}}=15 \mathrm{Amps}\right)$ <br>  <br> $\mathrm{T}_{\mathrm{J}}=25^{\circ} \mathrm{C}$ <br> $\mathrm{T}_{\mathrm{J}}=125^{\circ} \mathrm{C}$ |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | $\mathrm{V}_{\mathrm{f}}$ | .64 | Volts |  |
| MAXIMUM REVERSE CURRENT ( $\mathrm{I}_{\mathrm{r}} @ 60 \mathrm{~V}$ PIV) |  |  |  |  |
|  | $\mathrm{T}_{\mathrm{J}}=25^{\circ} \mathrm{C}$ | $\mathrm{I}_{\mathrm{r}}$ | .40 | mA |
|  | $\mathrm{~T}_{\mathrm{J}}=125^{\circ} \mathrm{C}$ |  | 30 |  |

## SENSITRON

DATA SHEET 632, REV. A

## MECHANICAL DIMENSIONS: In Inches / mm



## SENSITRON

## DATA SHEET 632, REV. A

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