

**HERMETIC AXIAL LEAD / MELF  
GENERAL PURPOSE RECTIFIER****DESCRIPTION: A 200/400/600/800/1000 VOLT, 1.0 AMP, AXIAL LEAD/SURFACE MOUNT  
2000 NS GLASS RECTIFIER.****MAXIMUM RATINGS**All ratings are at  $T_A = 25^\circ\text{C}$  unless otherwise specified.

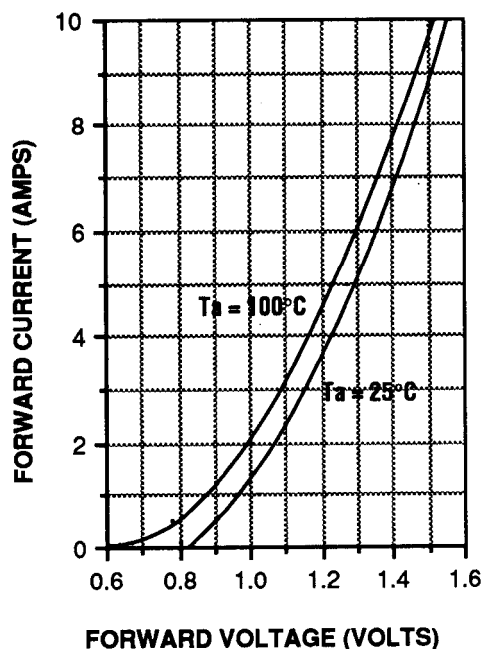
| RATING                                                                                    | CONDITIONS                                                             | MIN | TYP | MAX                              | UNIT               |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----|-----|----------------------------------|--------------------|
| Peak Inverse Voltage (PIV)<br>1N5614<br>1N5616<br>1N5618<br>1N5620<br>1N5622              |                                                                        | -   | -   | 200<br>400<br>600<br>800<br>1000 | Vdc                |
| Average DC Output Current ( $I_o$ ) $T_C = 55^\circ\text{C}$<br>$T_C = 100^\circ\text{C}$ |                                                                        | -   | -   | 1.0<br>0.75                      | Amps               |
| Peak Single Cycle Surge Current ( $I_{fsm}$ )                                             | $t_p = 8.3$ ms Single Half Cycle Sine Wave, Superimposed On Rated Load | -   | -   | 30                               | Amps(pk)           |
| Thermal Resistance ( $\theta_{JL}$ )                                                      | Junction to Lead<br>$d = 0.375''$                                      | -   | -   | 36                               | $^\circ\text{C/W}$ |
| Thermal Resistance ( $\theta_{JEC}$ )                                                     | Junction to Endcap                                                     | -   | -   | 13                               | $^\circ\text{C/W}$ |
| Operating and Storage Temp. ( $T_{op}$ & $T_{stg}$ )                                      | -                                                                      | -65 | -   | +175                             | $^\circ\text{C}$   |

**ELECTRICAL CHARACTERISTICS**

| CHARACTERISTIC                                       | CONDITIONS                                                           | MIN | TYP | MAX       | UNIT                                 |
|------------------------------------------------------|----------------------------------------------------------------------|-----|-----|-----------|--------------------------------------|
| Maximum Forward Voltage ( $V_f$ )                    | $I_F = 3.0\text{A}$ (300 $\mu\text{sec}$ pulse, duty cycle < 2%)     | -   | -   | 1.3       | Volts                                |
| Maximum Instantaneous Reverse Current At Rated (PIV) | $T_A = 25^\circ\text{C}$<br>$T_A = 100^\circ\text{C}$                | -   | -   | 0.5<br>25 | $\mu\text{Amps}$<br>$\mu\text{Amps}$ |
| Maximum Reverse Recovery Time                        | $I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$<br>$I_{RR} = 0.25\text{A}$ | -   | -   | 2000      | ns                                   |



# TYPICAL FORWARD VOLTAGE VERSUS FORWARD CURRENT (PULSED)



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