**SENSITRON SEMICONDUCTOR**

**TECHNICAL DATA**
**DATA SHEET 128, REV. A**

**SJ**
**SV**
**SX**

# HERMETIC AXIAL LEAD RECTIFIER

**DESCRIPTION: A 200/400/600/800/1000 VOLT, 1 AMP, 5000 NANOSECOND RECTIFIER.**

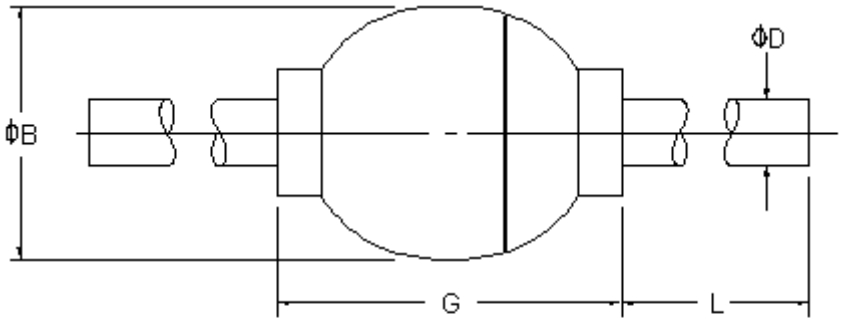
**MAX. RATINGS / ELECTRICAL CHARACTERISTICS** All ratings are at $T_A = 25^oC$ unless otherwise specified.

| RATING | CONDITIONS | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|
| Peak Inverse Voltage<br>1N3611<br>1N3612<br>1N3613<br>1N3614<br>1N3957 | - | - | - | <br>200<br>400<br>600<br>800<br>1000 | Vdc |
| Average DC Output Current ($I_o$) | $T_C = 100^oC$<br>$T_C = 150^oC$ | - | - | 1.0<br>0.30 | 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) |
| Operating and Storage Temp. ($T_{op}$ & $T_{stg}$) | - | -65 | - | +175 | °C |
| Maximum Forward Voltage ($V_f$) | $I_f$ = 1.0A (300 μsec pulse, duty cycle < 2%) | - | - | 1.1 | Volts |
| Maximum Instantaneous Reverse Current At Rated (PIV) | $T_A$ = 25 °C<br>$T_A$ = 150 °C | - | - | 1.0<br>300 | μAmps |
| Reverse Recovery Time ($t_{rr}$) | $I_f$ = 0.5A, $I_r$ = 1.0A, $I_{rr}$ = 0.25A | - | - | 5000 | nsec |
| Thermal Resistance ($R_{\theta JL}$) | - | - | - | 38 | °C/W |

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**MECHANICAL DIMENSIONS: In Inches / mm**




| PACKAGE STYLE | DIMENSIONS - INCHES / MILLIMETERS | | | |
|---|---|---|---|---|
| | ϕB | ϕD | G | L |
| 101 | .060/.110<br>1.52/2.79 | .025/.034<br>.64/.86 | .140/.205<br>3.56/5.21 | .60/1.50<br>15.2/38.1 |

**PKG. 101**

**Note:** The cathode side is marked with a dark colored band on the diode body.

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