

# **SENSITRON** **SEMICONDUCTOR**

1N3611  
1N3612  
1N3613  
1N3614  
1N3957

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.

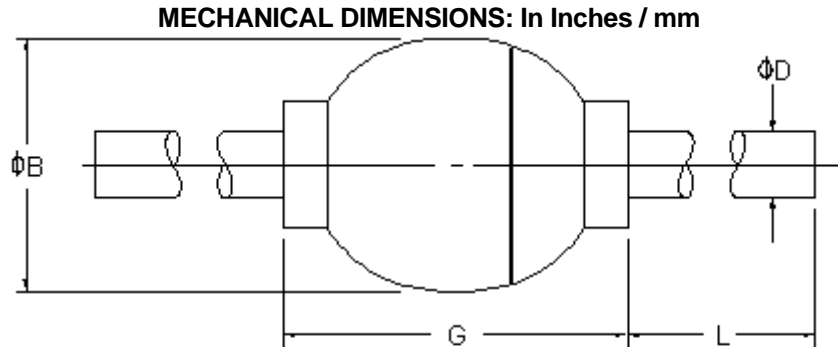
MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at  $T_A = 25^\circ\text{C}$  unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage 1N3611 1N3612 1N3613 1N3614 1N3957	-	-	-	200 400 600 800 1000	Vdc
Average DC Output Current ( $I_o$ )	$T_C = 100^\circ\text{C}$ $T_C = 150^\circ\text{C}$	-	-	1.0 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	$^\circ\text{C}$
Maximum Forward Voltage ( $V_f$ )	$I_f = 1.0\text{A}$ (300 $\mu\text{sec}$ pulse, duty cycle < 2%)	-	-	1.1	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ\text{C}$ $T_A = 150^\circ\text{C}$	-	-	1.0 300	$\mu\text{Amps}$
Reverse Recovery Time ( $t_{rr}$ )	$I_f = 0.5\text{A}$ , $I_r =$ $1.0\text{A}$ , $I_{rr} = 0.25\text{A}$	-	-	5000	nsec
Thermal Resistance ( $R_{\theta JL}$ )	-	-	-	38	$^\circ\text{C/W}$

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PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	$\phi B$	$\phi D$	G	L
101	.060/.110	.025/.034	.140/.205	.60/1.50
	1.52/2.79	.64/.86	3.56/5.21	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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