

**SENSITRON**  
**SEMICONDUCTOR**

1N5615/US thru 1N5623/US

**TECHNICAL DATA**  
**DATA SHEET 5081, REV. A**

**1N56xx**  
**\*SJ56xx / \*SX44xx / \*SV56xx**  
**\*SS56xx**  
**JAN56xx / JANTX56xx / JANTXV56xx**

**Fast Recovery Rectifier**

- Hermetic, non-cavity glass package
- Metallurgically bonded
- Operating and Storage Temperature: -65°C to +175°C

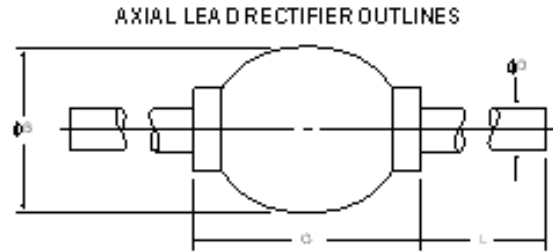
*\*Sensitron equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our specification 7700-4093 specification 7700-4091 (for SJ/SX/SV) and 7700-4093 (for SS).*

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAX. AVG. DC OUTPUT CURRENT		MAXIMUM REVERSE CURRENT @ PIV		MAX. PEAK FORWARD VOLTAGE (PULSED)		PEAK 1 CYCLE SURGE CURRENT	MAXIMUM REVERSE RECOVERY TIME Trr If=0.5A IRM=1A IR(REC)=0.25A	THERM RES RθJL d=.375
		Amps		μAmps		V	A			
	Volts	55°C	100°C	25°C	100°C	V	A	Amps	nsec	°C/W
1N5615	200								150	
1N5617	400								150	
1N5619	600	1.0	.75	0.5	25	1.6	3.0	25	250	38
1N5621	800								300	
1N5623	1000								500	

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**MECHANICAL DIMENSIONS In Inches / (mm)**

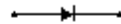
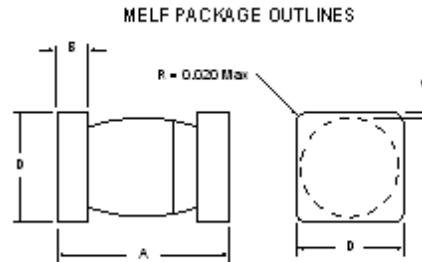
**AXIAL**



Note: Cathode side of device is indicated by a dark band marked on body.

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	$\phi_B$	$\phi_D$	G	L
102	.065/.110 1.65/2.79	.026/.033 .66/.84	.130/.225 3.30/5.72	1.00/1.30 25.4/33.0

**MELF**



Note: Cathode side of device is indicated by a dark band marked on body.

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	A	B	C	D
MELF-1	.168/.230 4.2/5.9	0.019/.028 .48/.72	.003 Min .076 Min	.091/.128 2.311/ 3.251

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### **PART ORDERING INFORMATION:**

The following part numbers can be purchased in either axial or surface mount devices and screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

<b>Sensitron Screening Level</b>	<b>Part Number- Leaded Package</b> <i>(example for 1N5615)</i>	<b>Part Number- Surface Mount Package</b> <i>(example for 1N5615US)</i>
<b>SJ</b>	SJ5615	SJ5615US
<b>SX</b>	SX5615	SX5615US
<b>SV</b>	SV5615	SV5615US
<b>SS</b>	SS5615	SS5615US
<b>JAN</b>	JAN5615	JAN5615US
<b>JANTX</b>	JANTX5615	JANTX5615US
<b>JANTVX</b>	JANTXV5615	JANTXV5615US
<b>JANS</b>	JANS5615	JANS5615US

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