

**SENSITRON**  
**SEMICONDUCTOR**

SS6638/ U/ US  
SS6640/ US  
SS6642/ U/ US

**TECHNICAL DATA**  
**DATA SHEET 4973, REV. B**

**SIGNAL OR COMPUTER DIODE SS6638, SS6640, SS6642**

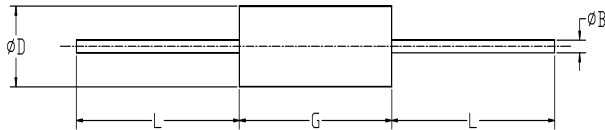
- Switching Diode
- Hermetic, non-cavity glass package
- Metallurgically bonded
- Manufacture & screen to TX/TXV/JANS per MIL-PRF-19500/578,609 using Sensitron specification, 7700-409X

Physical dimensions: Axial lead similar to DO-35 and surface mount similar to (D-5D)

Maximum ratings  $T_A = +25^\circ\text{C}$ :

Types	$V_{BR}$	$V_{RWM}$	$I_o$	$I_{FSM}$ $T_p=1/120s$	$T_{STG}, T_J$	$R_{\theta JL}$ $L=.375$	$R_{\theta JEC}$ $L=0$	$Z_{\theta JX}$
	V(pk)	V(pk)	MA	A(pk)	$^\circ\text{C}$	$^\circ\text{C/W}$	$^\circ\text{C/W}$	$^\circ\text{C/W}$
SS6638,SS6638U	150	125	300	2.5	-65 to +175	150	40	25
SS6640,SS6640U	75	50	300	2.5	-65 to +175	150	40	25
SS6642,SS6642U	100	75	300	2.5	-65 to +175	150	40	25

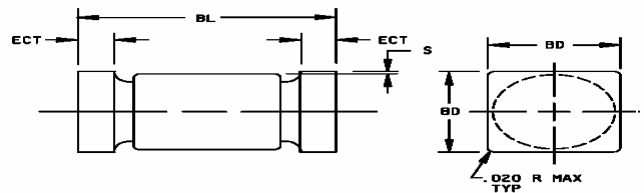
**AXIAL**



**1N6638 thru 1N6643**

PACKAGE	DIMENSIONS - INCHES (MILLIMETERS)			
STYLE	$\phi B$	$\phi D$	G	L
DO-35	.018/.022 0.46/0.56	.056/.080 1.42/2.03	.130/.180 3.30/4.57	1.00/1.50 25.4/38.10

**MELF**



**1N6638U thru 1N6643U**

PACKAGE	DIMENSIONS - INCHES (MILLIMETERS)			
STYLE	BL	BD	S	ECT
D-5D	.165/.195 4.19/4.95	.070/.085 1.78/2.16	0.003 Min	.019/.028 0.48/0.71

---

**TECHNICAL DATA**  
**DATA SHEET 4081, REV. B**

**DISCLAIMER:**

1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).

2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.

3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.

4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.

5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.

6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.

7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.