

SENSITRON

SEMICONDUCTOR

POWER RECTIFIER

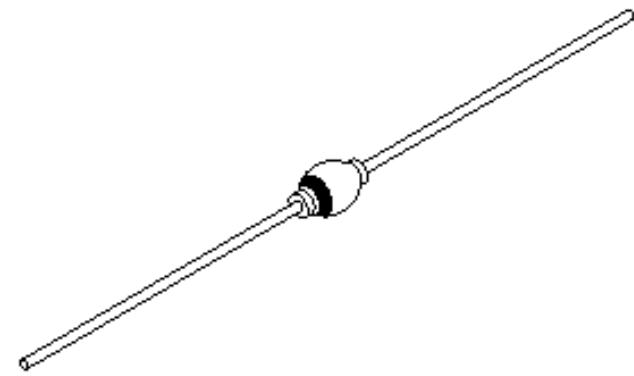
PART NUMBER: JAN1N5553

PACKAGE STYLE: 301

CONFIGURATION: SINGLE

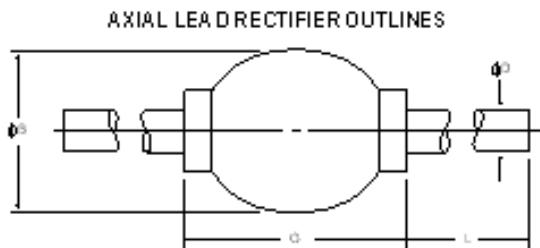
ALL RATINGS ARE @ $T_c = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

[Disclaimer](#)



| MAXIMUM RATINGS / Conditions | SYMBOL | MAX | UNITS |
|--|-------------------|-------------|--------------------|
| PEAK INVERSE VOLTAGE | PIV | 800 | Volts |
| MAXIMUM DC OUTPUT CURRENT @ $T_c = 55^\circ\text{C}$) | I_o | 3 | Amps |
| MAXIMUM DC OUTPUT CURRENT @ $T_c = 100^\circ\text{C}$) | I_o | 2 | Amps |
| MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine) | IFSM | 100 | Amps |
| MAXIMUM THERMAL RESISTANCE | $R_{\theta JC}$ | 22 | $^\circ\text{C/W}$ |
| OPERATING TEMPERATURE | $T_J(\text{MAX})$ | -65 to +175 | $^\circ\text{C}$ |

| ELECTRICAL CHARACTERISTICS / Conditions | SYMBOL | MAX | UNITS |
|--|----------|---------|--------------------------------|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 9$ Amps) $T_J = 25^\circ\text{C}$ | V_f | 1.3 | Volts |
| MAXIMUM REVERSE CURRENT $T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$ | I_r | 1 75 | μA μA |
| REVERSE RECOVERY TIME | t_{rr} | 2000 | ns |

MECHANICAL DIMENSIONS: In Inches / mm

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

| PACKAGE STYLE | DIMENSIONS - INCHES / MILLIMETERS | | | |
|------------------|-----------------------------------|----------------------|------------------------|------------------------|
| | ϕ B | ϕ D | G | L |
| 301 | .115/.180 2.92/4.57 | .037/.042 .94/.07 | .130/.300 3.30/7.62 | .90/.1.30 22.9/33.0 |

Data and specifications subject to change without notice.

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.

Copyright 1998 Sensitron Semiconductor sales@sensitron.com

221 West Industry Ct., Deer Park, NY 11729-4681

PHONE (631) 586-7600 FAX (631) 242-9798