

# TECHNICAL DATA DATA SHEET 5078, REV. A

## Ultrafast Recovery Rectifier

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

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

Rating	Symbol	Condition	Max	Units
WORKING PEAK REVERSE VOLTAGE 1N6626, U, US 1N6627, U ,US 1N6628, U, US 1N6629, U, US 1N6630 ,U, US 1N6631, U, US	V <sub>RWM</sub>		200 400 600 800 900 1000	Volts
AVERAGE RECTIFIED FORWARD CURRENT 1N6626 thru 1N6628 1N6629 thru 1N6631	lo	T∟= 75 °C	2.3 1.8	Amps
AVERAGE RECTIFIED FORWARD CURRENT 1N6626U, US thru 1N6628U, US 1N6629U, US thru 1N6631U, US	l <sub>o</sub>	T <sub>EC</sub> = 110 °C	4.0 2.8	Amps
PEAK FORWARD SURGE CURRENT 1N6626, U, US thru 1N6630,U, US 1N6631, U, US	I <sub>FSM</sub>	T <sub>p</sub> =8.3ms	75 60	A(pk)
MAXIMUM REVERSE CURRENT 1N6626, U, US thru 1N6630,U, US 1N6631, U, US	I <sub>R</sub> @ V <sub>RWM</sub>	$T_j = 25 °C$	2.0 4.0	μAmps
MAXIMUM REVERSE CURRENT 1N6626, U, US thru 1N6630,U, US 1N6631, U, US	I <sub>R</sub> @ V <sub>RWM</sub>	$T_j = 150 ^{\circ}C$	500 600	μAmps
MAX. PEAK FORWARD VOLTAGE (PULSED) 1N6626, U, US thru 1N6629,U, US 1N6630,U, US 1N6631, U, US	V <sub>FM</sub>	I <sub>F</sub> =4A I <sub>F</sub> =3A I <sub>F</sub> =2A	1.50 1.70 1.95	Volts
PEAK RECOVERY CURRENT 1N6626, U, US thru 1N6629,U, US 1N6630,U, US 1N6631, U, US	I <sub>RM</sub>	I <sub>F</sub> =2A, 100Α/μ	3.5 4.2 5.0	A(pk)
MAXIMUM REVERSE RECOVERY TIME 1N6626, U, US thru 1N6629,U, US 1N6630,U, US 1N6631, U, US	Trr	I <sub>F</sub> =0.5A I <sub>RM</sub> =1.0A	30 50 60	ns
FORWARD RECOVERY VOLTAGE 1N6626, U, US thru 1N6629,U, US 1N6630,U, US 1N6631, U, US	V <sub>FRM</sub>	I <sub>F</sub> =1A t <sub>r</sub> =12ns	8 12 20	Volts
THERMAL RESISTANCE (Axial) 1N6626 thru 1N6631	Rθ <sub>JL</sub>	L=.375	22	°C/W
THERMAL RESISTANCE (MELF) 1N6626U, US thru 1N6631U, US	Rθ <sub>JC</sub>	L=0	6.5	°C/W

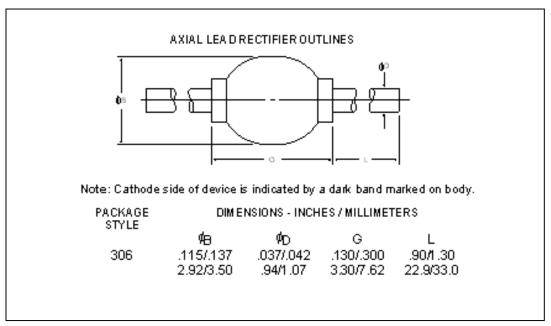
221 West Industry Court Deer Park, NY 11729-4681 Phone (631) 586 7600 Fax (631) 242 9798
World Wide Web Site - http://www.sensitron.com • E-Mail Addre1N - sales@sensitron.com •

# SENSITRON SEMICONDUCTOR

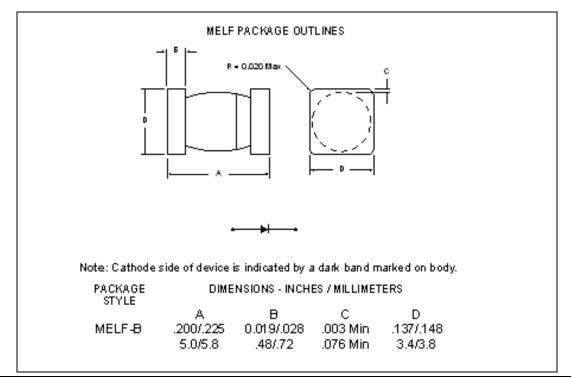
TECHNICAL DATA DATA SHEET 5078, REV. A

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





MELF	
------	--



221 West Industry Court Deer Park, NY 11729-4681 Phone (631) 586 7600 Fax (631) 242 9798
World Wide Web Site - http://www.sensitron.com • E-Mail Addre1N - sales@sensitron.com •

# SENSITRON SEMICONDUCTOR

## TECHNICAL DATA DATA SHEET 5078, REV. A

#### 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 Sensition 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.

<sup>221</sup> West Industry Court Deer Park, NY 11729-4681 Phone (631) 586 7600 Fax (631) 242 9798 •
World Wide Web Site - http://www.sensitron.com • E-Mail Addre1N - sales@sensitron.com •