

TECHNICAL DATA  
PART NUMBER SEN-5282, REV C

**High Pulse Power Mil-STD-1275 Transzorb**

Application:

- +28V DC systems
- Allows the use of 55V high efficiency FET
- Increase system reliability through eliminating avalanche FET operation
- Clamping below 55V DC for both 100V and 250V pulse
- High Pulse Power Capability

Protection Level:

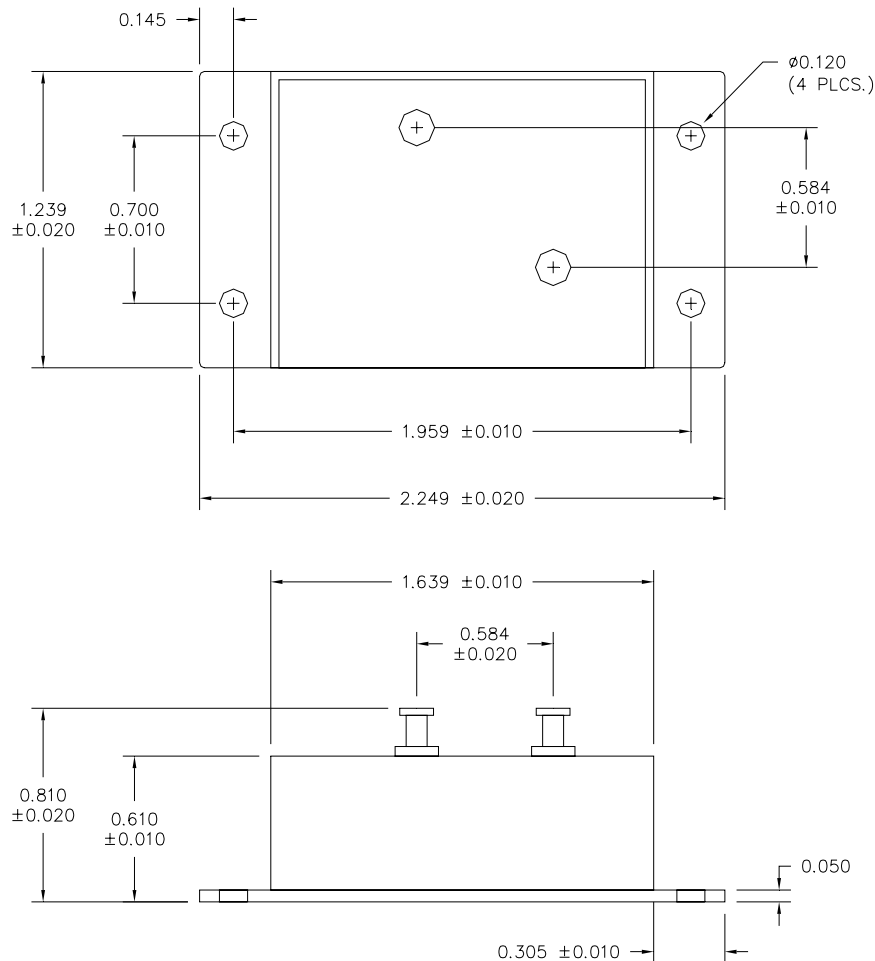
MIL-STD-1275 Compliant; 100V Surge withstanding with 0.5-ohm source impedance  
Non-Hermetic version

Rating	Condition	Minimum	Maximum	Units
Peak Pulse Power Dissipation	@ 25°C, 1ms	-	60	KW
Steady State Power Dissipation	@ 25°C	-	40	Watts
T <sub>clamping</sub>	0 Volts to V <sub>(BR)</sub>	-	< 1x 10 <sup>-8</sup>	Seconds
Operating & Storage Temp.	-	-55	+ 150	°C

Part Number	Reverse Stand-Off Voltage V <sub>WM</sub> (Volts)	Maximum Reverse Leakage @ V <sub>WM</sub> I <sub>D</sub> (µA)	Minimum Breakdown Voltage @ 10 mA V <sub>(BR)</sub> (Volts)	Maximum Clamping Voltage @ I <sub>PP</sub> V <sub>c</sub> (Volts)	Maximum Peak Pulse Current I <sub>PP</sub> (Amps)
SEN-5282	33	25	36.7	49	120

**TECHNICAL DATA**  
**PART NUMBER SEN-5282, REV C**

TOP VIEW



**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.