

TECHNICAL DATA  
PART NUMBER SCP-5282-1, REV. -**High Pulse Power Mil-STD-1275 Transzorb****Application:**

- +28V DC systems

**Protection Level:**

- MIL-STD-1275 testing; 100V Surge withstanding with 0.5-ohm source impedance
- 100% tested at 100A peak current, single 80-msec square current pulse
- 60% higher power rated compared to industry standard offerings

**Key Features:**

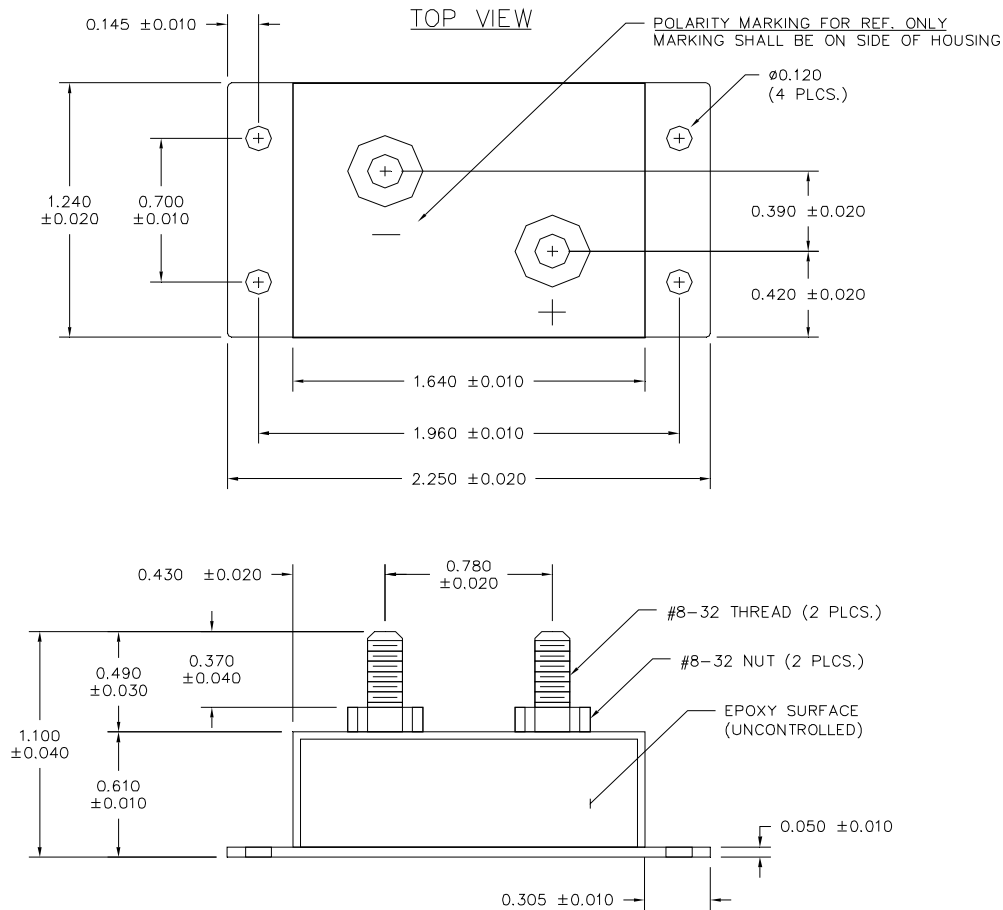
- Allows the use of 50V high efficiency FET
- Increase system reliability through eliminating avalanche FET operation
- Clamping below 55V DC for both 100V and 250V pulse
- High pulse power capability
- Non-hermetic version, with threaded terminals

**Part Ordering Information:**

- SCP-5282-1: bi-directional
- SCP-5282-1U: uni-directional

Rating	Condition	Symbol	Min	Max	Units
Peak Pulse Power Dissipation	@ 25 <sup>0</sup> C, 1ms	P <sub>pk</sub>	-	60	KW
Steady State Power Dissipation	@ 25 <sup>0</sup> C	P	-	40	Watts
Reverse Stand-Off Voltage	-	V <sub>WM</sub>	-	33	Volts
Reverse Leakage	@ V <sub>WM</sub>	I <sub>D</sub>	-	25	μA
Breakdown Voltage	@ 10 mA	V <sub>(BR)</sub>	36.7	-	Volts
Clamping Voltage	@ I <sub>PP</sub>	V <sub>C</sub>	-	49	Volts
Peak Pulse Current	-	I <sub>PP</sub>	-	100	Amps
T <sub>clamping</sub>	0 Volts to V <sub>(BR)</sub>		-	< 1x 10 <sup>-8</sup>	Seconds
Operating & Storage Temp.	-	Top & Tstg	-55	+ 150	<sup>0</sup> C

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**SCP-5282-1**  
**(threaded terminals)**

**Note:** The polarity markings are applicable for -1U only.

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