

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:

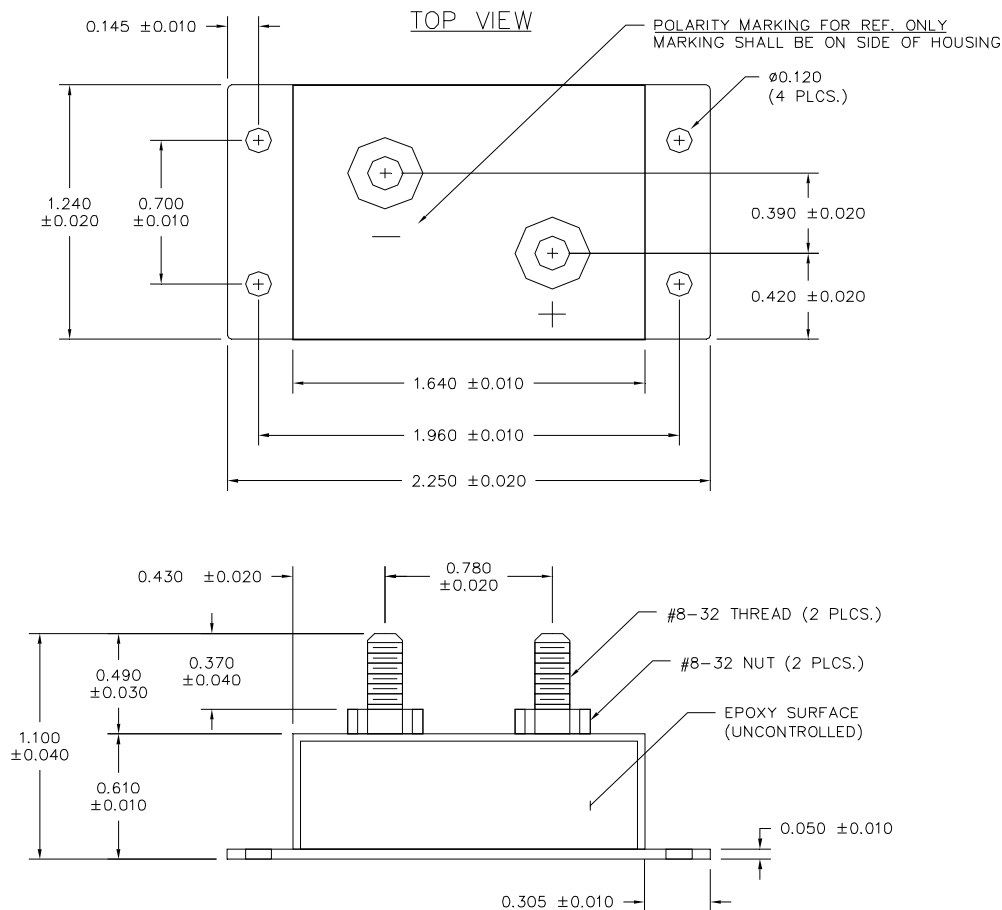
- Allows the use of 50V high efficiency FET
- Increase system reliability through eliminating avalanche FET operation
- Clamping below 55V DC for both 100V and 250V pulse
- High pulse power capability
- Non-hermetic version, with threaded terminals

Part Ordering Information:

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

Rating	Condition	Symbol	Min	Max	Units
Peak Pulse Power Dissipation	@ 25°C, 1ms	P_{pk}	-	60	KW
Steady State Power Dissipation	@ 25°C	P	-	40	Watts
Reverse Stand-Off Voltage	-	V_{WM}	-	33	Volts
Reverse Leakage	@ V_{WM}	I_D	-	25	μA
Breakdown Voltage	@ 10 mA	$V_{(BR)}$	36.7	-	Volts
Clamping Voltage	@ I_{PP}	V_C	-	49	Volts
Peak Pulse Current	-	I_{PP}	-	100	Amps
$T_{clamping}$	0 Volts to $V_{(BR)}$		-	$< 1 \times 10^{-8}$	Seconds
Operating & Storage Temp.	-	Top & Tstg	-55	+ 150	°C

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SCP-5282-1
(threaded terminals)

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

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