

TECHNICAL DATA  
PART NUMBER SCP-5282-3, REV -

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



**Application:**

- +28V DC systems
- Bi-Directional
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**Protection Level:**

- MIL-STD-1275 Compliant; 100V Surge withstanding with 0.5-ohm source impedance
- Capable of handling 130-msec single pulse up to 135A
- 100% tested for 5 pulses of 110A, 50 msec within 1 sec

**Key Features:**

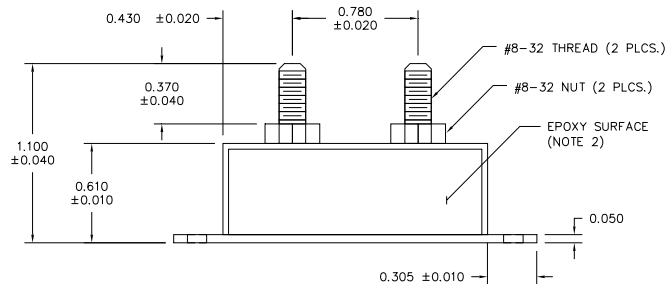
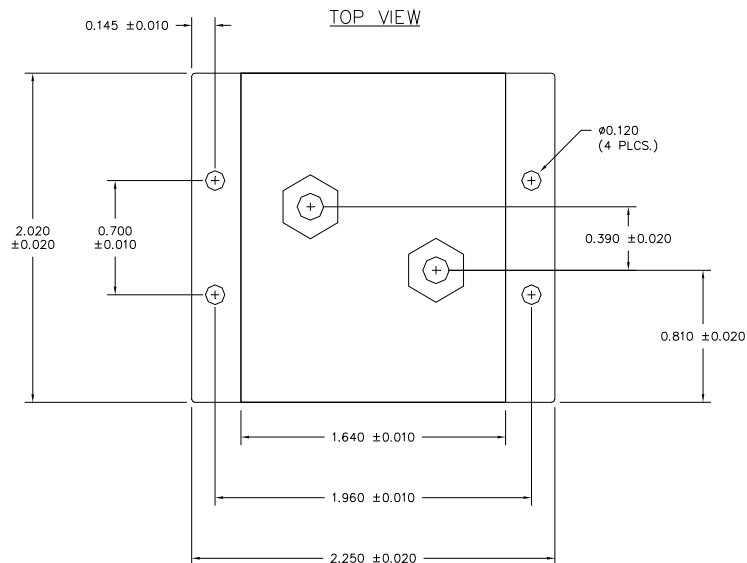
- Allows the use of 55V high efficiency FET
- Increase system reliability through eliminating avalanche FET operation
- Clamping below 55V DC for both 100V and 250V pulse
- High Pulse Power Capability
- Non-Hermetic version

**Part Ordering Information:**

- SCP-5282-3: with threaded terminals

Rating	Condition	Symbol	Min	Max	Units
Peak Pulse Power Dissipation	@ 25°C, 1ms	$P_{pk}$	-	100	KW
Steady State Power Dissipation	@ 25°C	$P$	-	60	Watts
Reverse Stand-Off Voltage	-	$V_{WM}$	-	33	Volts
Reverse Leakage	@ $V_{WM}$	$I_D$	-	40	$\mu A$
Breakdown Voltage	@ 10 mA	$V_{(BR)}$	36.7	-	Volts
Clamping Voltage	@ $I_{PP}$	$V_C$	-	49	Volts
Peak Pulse Current (single 130-msec square pulse)	-	$I_{PP1}$		135	Amps
Peak Pulse Current (5 pulses of 50-msec in 1 sec)	-	$I_{PP2}$		110	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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NOTES:

- 1) DIMENSIONS UNLESS OTHERWISE NOTED ARE IN INCHES.
- 2) POTTING SURFACE UNCONTROLLED.

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