TECHNICAL DATA
PART NUMBER SCP-5282-2, REV A.1

High Pulse Power Mil-STD-1275 Transorb

Application:

- **+28V DC systems**
- **Bi-Directional**

Protection Level:

- **MIL-STD-1275 Compliant; 100V Surge withstanding with 0.5-ohm source impedance**
- **Capable of handling 100A peak current, single 130 msec square current pulse**
- **100% tested for 5 pulses of 100A, 50 msec square current pulse with 1 sec delay between pulses and 50°C base plate temperature**

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-5282-2: with threaded terminals**

Rating	Condition	Symbol	Min	Max	Units
Peak Pulse Power Dissipation	@ 25^0C, 1ms	P_{pk}	-	60	KW
Steady State Power Dissipation	@ 25^0C	**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 $V_{(BR)}$		-	$< 1x\ 10^{-8}$	Seconds
Operating & Storage Temp.	-	Top& Tstg	-55	+ 150	^{0}C

Notes:

- **SCP-5282 products require two additional #8-32 nuts in order to secure the connections (not provided). Nuts shall be hand-tightened prior the maximum 12 in-lb torque is applied. Caution: the high-speed torque drivers may cause thread damage on SCP-5282's copper screw terminals.**

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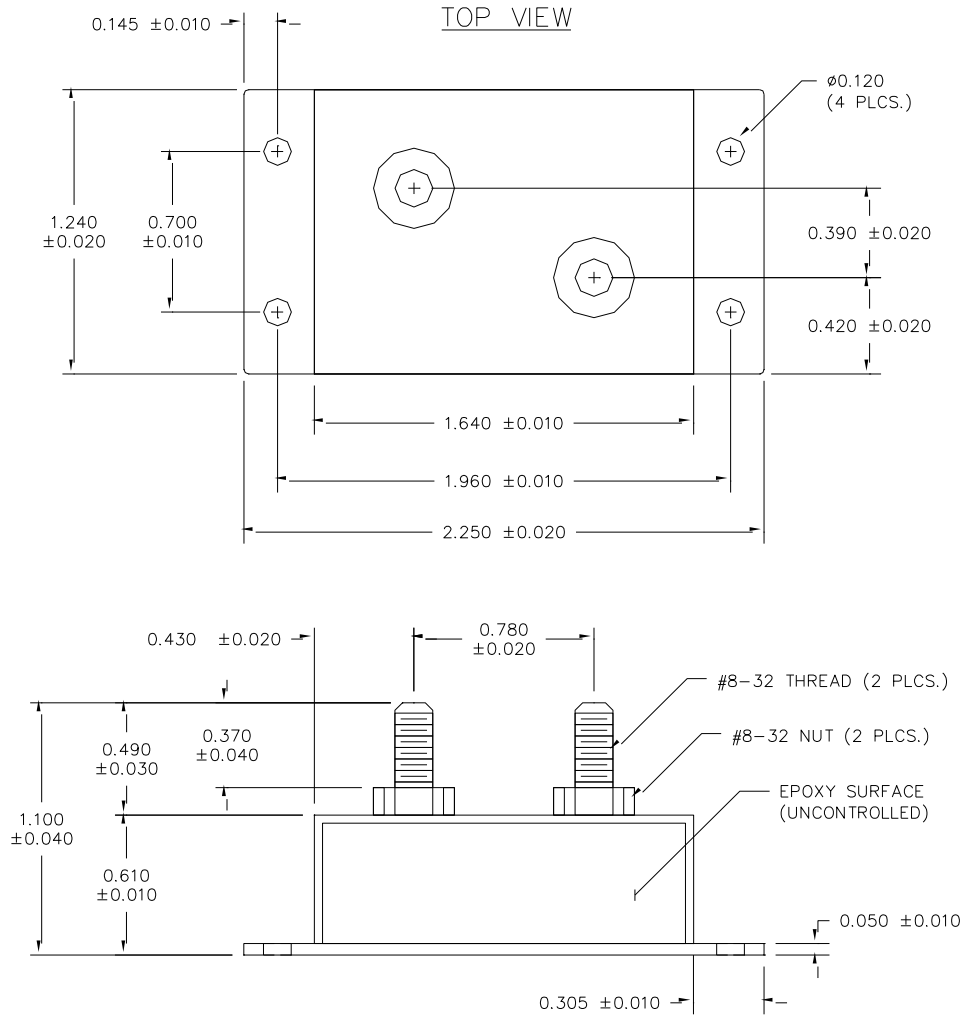

SCP-5282-2
(Threaded Terminals)