
PART NUMBER: SCP-5425, REV. D.1

SURGE SUPPRESSOR MODULE (MIL-STD-1399)

This rugged, high power module is capable of protecting sensitive electrical systems from high-energy transients and over-voltage power surges in either direction.

Features:

- 460KW Power Handling Capacity across L-N
- Very Fast Response < 1 nsec
- Bi-Polar Protection
- Rugged Epoxy Construction
- Internally Hermetically Sealed
- Suitable for PCB or Panel Mounting
- Protects both Common and Differential Mode Transients
- No Limitation on Load Current capability

Part Ordering Information:

- **SCP-5425A: with threaded terminals**

Applications:

- Module is specifically designed for direct connection to 120V AC single phase systems.

Operating Conditions:

- Line Voltage (L-N): 100VAC ~ 150VAC, 50Hz~440Hz, Single Phase
Source Impedance: L-N: 2 Ohms min
N-G: 12 Ohms min
L-G: 12 Ohms min

Surge and Clamp Protection:

The following data apply to all 3 pairs: L-N, L-E and N-E, unless otherwise specified

- Breakdown Voltage: V_Z : Minimum 233V, Maximum 258V (Measured @ 25°C @ 5mA)
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -55°C to 125°C
- $T_C (V_Z) + 0.1\% / ^\circ C$
- Clamping limit V_C in either direction @ corresponding $I_{PP}, T_C = 25^\circ C$
1.2 / 50usec waveform as per MIL-STD-1399

	I_{PP}	$V_{CL(max)}$
L-N:	1200A	385 V
N-G:	200A	330 V
L-G:	200A	330 V

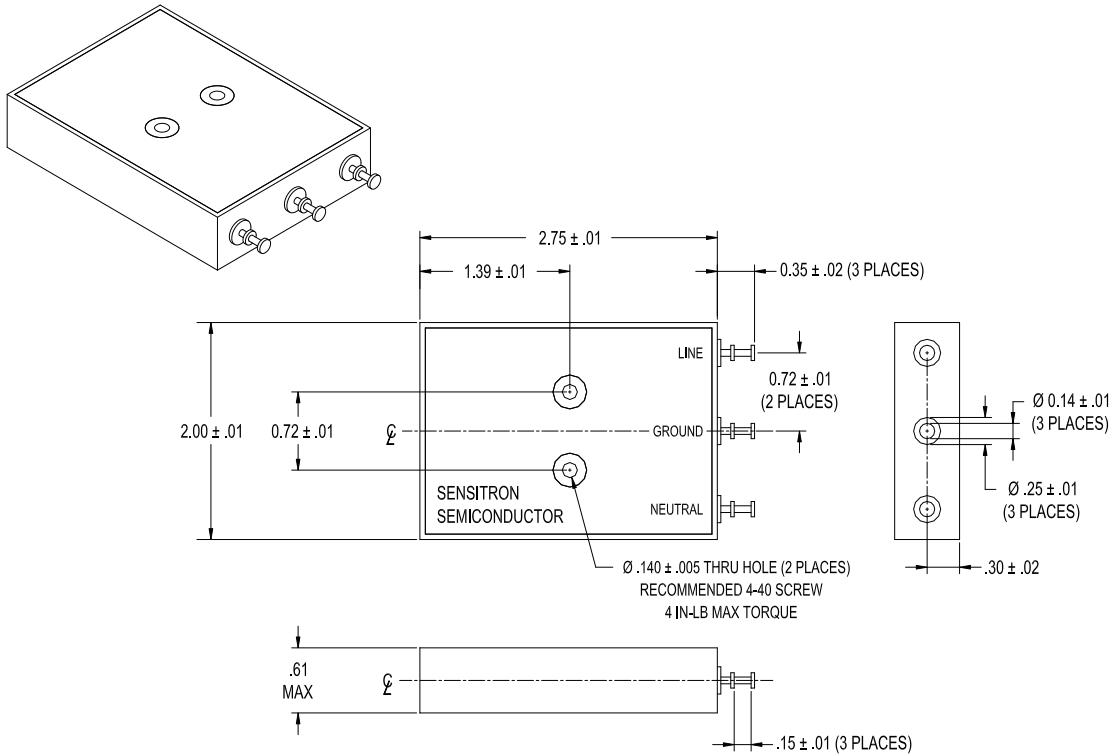
- Reverse current @ 25°C 50µA max for L-N, N-G, and L-G
- Reverse current @ 85°C 1mA max for L-N, N-G, and L-G

Construction:

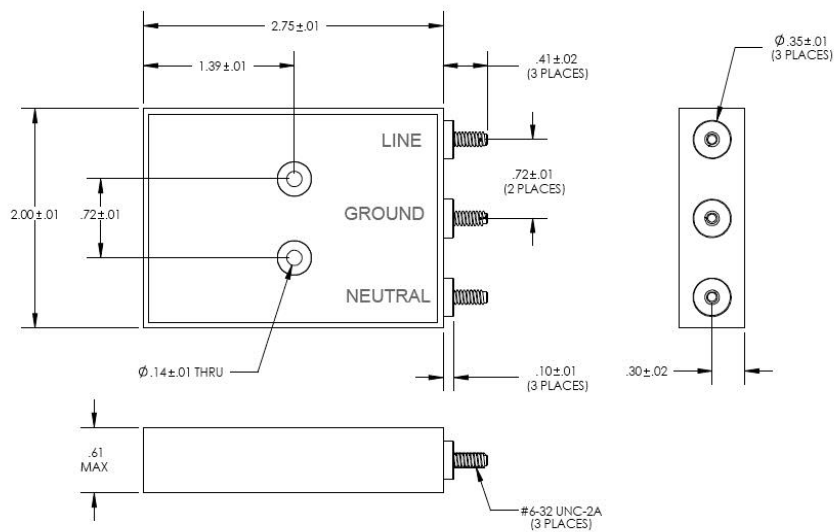
- Consists of discrete hermetic sealed large area bipolar silicon devices

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Mechanical Dimensions: In inches



SCP-5425



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