

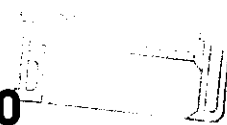


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Designer's Data Sheet

SVZ5.6  
thru  
SVZ1400



100-6500 AMPS (TRANSIENT)  
70-4500 VOLTS (TRANSIENT)  
7.5-1820 VOLTS (NOMINAL)  
5.6-1400 VOLTS(STAND-OFF)

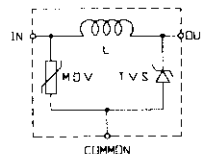
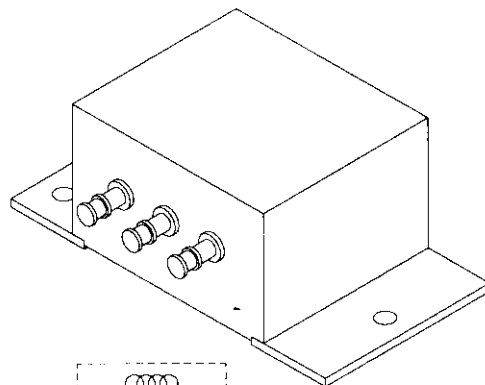
SURGE ARRESTOR MODULE

FEATURES:

- Metal Oxide Varistor as diverter element to handle high transient current, clamp high transient voltage, and absorb high transient energy
- Power Inductor as Series impedance element to lower transient voltage and slow down the rate of rise of fast switching transient pulses/NEMP.
- Transient Voltage Suppressor as clamp element to further reduce transient voltage and precisely control voltage level to the safe predetermined voltage.
- Different mounting and terminations available
- Higher Power Versions available

APPLICATIONS:

- Voltage Transient protection on the input AC power lines of Switch Mode Power Supplies
- Lightning/NEMP Protection
- Arc Suppression & Ground Fault Interrupters
- Transient protection to IEEE Standard 587-1980 Cat. B
- Power Switches & Device Protection from overvoltage



SPECIFICATIONS

|                             |                 |                  |  |
|-----------------------------|-----------------|------------------|--|
| Operating Temperature Range | -55°C to +125°C | Inductor Rating: | Inductance: 2µH-800µH<br>1-12 Amp rating<br>Nominal DCR: 0.005-0.470 Ω |
| Storage Temperature Range   | -65°C to 150°C  |                  |  |

INPUT RATINGS (M.O.V)

|                                     |                      |
|-------------------------------------|----------------------|
| AC Voltage                          | 11-1000 Volts (RMS)  |
| DC Voltage                          | 15-1465 Volts        |
| Nominal Voltage                     | 18-1800 Volts (±10%) |
| Standoff Voltage                    | 16-1500 Volts        |
| Peak Single Pulse Transient Current | 100-6500 Amps *      |
| Peak Single Pulse Transient Voltage | 70-4500 Volts *      |
| Peak Single Pulse Transient Energy  | 0.3-500 Joules *     |
| Max Allowable Continuous Power      | 0.01-1.0 Watts       |
| Transient Average Power Dissipation | 0.1-1.0 Watts        |
| Typical Capacitance                 | 50-40,000 pF         |
| Response Time                       | 15-25 nsec           |
| Max Temperature Coefficient         | -0.05%/°C            |

OUTPUT RATINGS (T.V.S.)

|                             |                           |
|-----------------------------|---------------------------|
| Stand-off Voltage           | 5.6-1400 Volts            |
| Nominal Voltage             | 7.5-1820 Volts (±10%/±5%) |
| Steady-State Power          | 84 Watt                   |
| Peak Pulse Power            | 140 KWatt*/21 KWatt**     |
| Peak Pulse Clamping Voltage | 11.7-2590 Volts **        |
| Peak Pulse Clamping Current | 8.0-1800 Amps **          |
| Maximum Current             | 0.04-10 Amps              |
| Max. Dynamic impedance      | 0.05-1400 Ohms            |
| Max. Response Time          | 50nsec ***                |
| Max. Self Restore Time      | 50 nsec****               |
| Typical Temp. Coefficient   | 0.03-0.09%/°C             |

\* (8X20µs impulse)      \*\*\* from onset of voltage transient  
\*\* (10X1000 µs pulse)      \*\*\*\* following cessation of transient

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: T00010 A

RMD