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## Transient Voltage Suppressor:

The Hellroaring Transient Voltage Suppressors for SSR's have the following specifications. They are fabricated with a ¼ inch ring terminal on each end and should be connected to across the SSR terminals with the polarity the same as the SSR. For bi-directional switching such as battery power on both sides, you will need a bi-directional version. Add a "B" to the end of the part number. The "B" version is Bi-Directional and does not have a band on one end. It functions the same in either orientation. These are also available with custom wire or lug configurations. Additional transient protection can be obtained by using a free wheeling diode across the load.

| TVS Model   | TVS-36V-5k            | TVS-24V-5k            |  |
|---|-----------------------|-----------------------|--|
| Peak Pulse Power<br>(10 us rise by 1000 us decay)     | 5000 Watts            | 5000 Watts            |  |
| Forward Surge Rating<br>8.3mS half sine               | 400 Amps              | 400 Amps              |  |
| Peak Reverse Pulse Current<br>at clamping voltage     | 86 Amps               | 128 Amps              |  |
| Reverse Standoff Voltage                              | 36 Volts              | 24 Volts              |  |
| Breakdown Voltage Minimum<br>@ 5mA                    | 40.0 Volts            | 26.7 Volts            |  |
| Breakdown Voltage Max<br>@ 5mA                        | 44.2 Volts            | 29.5 Volts            |  |
| Max clamping voltage<br>@ peak current                | 58.1 Volts            | 38.9 Volts            |  |
| Maximum Leakage Current<br>@ Reverse Standoff Voltage | 10 uAmps              | 10 uAmps              |  |
| Response time   | $1 \times 10^{-12}$ S | $1 \times 10^{-12}$ S |  |
| Directional   | Uni-Directional       | Uni-Directional       |  |

