



Date: 07/28/2010

# HIGH ENERGY SERIES

MAIDA STYLE NUMBER D7577ZOV271RA550

MAIDA ITEM NUMBER 01-1031

**VARISTOR SPEC SHEET**

### Electrical Specifications

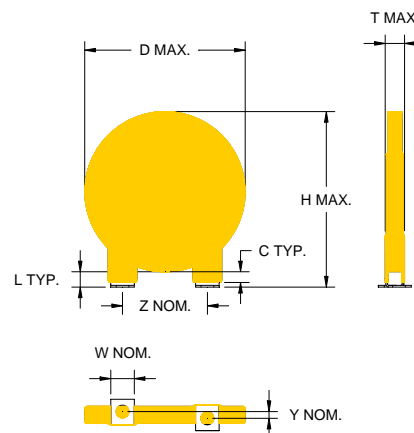
|                                    |       |      |
|------------------------------------|-------|------|
| Continuous AC Voltage              | 270   | VAC  |
| Continuous DC Voltage              | 360   | VDC  |
| Maximum DC Leakage @ 360 VDC       | 200   | uA   |
| Low Varistor Voltage Limit         | 382   | VDC  |
| High Varistor Voltage Limit        | 466   | VDC  |
| Nominal Varistor Voltage           | 424   | VDC  |
| Current for Varistor Voltage       | 1     | mA   |
| Maximum Clamp Voltage              | 710   | V    |
| Maximum Clamp Voltage Test Current | 300   | A    |
| Peak Current Rating (1 Pulse)      | 40000 | A    |
| Peak Current Rating (2 Pulse)      | 32000 | A    |
| Energy Rating (8X20us)             | 550   | J    |
| Energy Rating (10X1000us)          | 550   | J    |
| Typical Capacitance                | 2700  | pF   |
| Impulse Response Time              | < 50  | ns   |
| Minimum Hipot of Coating           | 2500  | VDC  |
| Minimum I.R. of Coating            | 1000  | MΩ   |
| Current/Energy Derating Above 85°C | -2.5  | %/°C |

### Physical Specifications

|                       |            |
|-----------------------|------------|
| Lead Style            | 165        |
| X Nominal             | 1 in.      |
| X Tolerance           | 0.02 in.   |
| Y Nominal             | 0.146 in.  |
| Y Tolerance           | 0.04 in.   |
| Z Nominal             | in.        |
| Z Tolerance           | in.        |
| Lead Length Nominal   | in.        |
| Lead Length Tolerance | in.        |
| d Nominal             | 0.02 in.   |
| Wire Gauge            | 24 AWG     |
| Minimum Marking       | Z271-550UL |
| Nominal Disk Size     | 40 mm      |
| D Maximum             | 1.89 in.   |
| T Maximum             | 0.294 in.  |
| H Maximum             | 2.07 in.   |
| Coating Type          | EPOXY      |

### Thermal Specifications

|                                    |       |      |
|------------------------------------|-------|------|
| Minimum Operating Temperature      | -40   | °C   |
| Maximum Operating Temperature      | 85    | °C   |
| Varistor Voltage Temperature Coeff | -0.05 | %/°C |
| Minimum Storage Temperature        | -50   | °C   |
| Maximum Storage Temperature        | 125   | °C   |
| Recommended Solder Temperature     | 260   | °C   |
| Recommended Reflow Temperature     | 260   | °C   |



### Notes

\* Contact Maida for a more detailed configuration drawing.

### Safety Agency Recognitions

|                     |         |
|---------------------|---------|
| UL 1449 File Number | E321173 |
| - Tested to Type:   | 2       |
| CSA File Number     | LR33468 |
| VDE File Number     |         |
| SEV File Number     |         |



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