



# VARISTOR SPEC SHEET

## STANDARD SERIES

Date: 06/10/2008

## VARISTOR SPECIFICATION SHEET

MAIDA STYLE NUMBER D6944ZOV301RA80T1N

MAIDA ITEM NUMBER 01-0645

### Electrical Specifications

|                                    |          |
|------------------------------------|----------|
| Continuous AC Voltage              | 300 VAC  |
| Continuous DC Voltage              | 390 VDC  |
| Maximum DC Leakage @ 390 VDC       | 200 uA   |
| Low Varistor Voltage Limit         | 425 VDC  |
| High Varistor Voltage Limit        | 518 VDC  |
| Nominal Varistor Voltage           | 472 VDC  |
| Current for Varistor Voltage       | 1 mA     |
| Maximum Clamp Voltage              | 790 V    |
| Maximum Clamp Voltage Test Current | 50 A     |
| Peak Current Rating (1 Pulse)      | 6000 A   |
| Peak Current Rating (2 Pulse)      | 4500 A   |
| Energy Rating (8X20us)             | 175 J    |
| Energy Rating (10X1000us)          | 175 J    |
| Typical Capacitance                | 470 pF   |
| Impulse Response Time              | < 50 ns  |
| Minimum Hipot of Coating           | 2500 VDC |
| Minimum I.R. of Coating            | 1000 MΩ  |

### 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     |
| Current/Energy Derating Above 85°C | -2.5 %/°C  |

### Notes

Lead Free - Complies with RoHS



DEVELOPMENT COMPANY

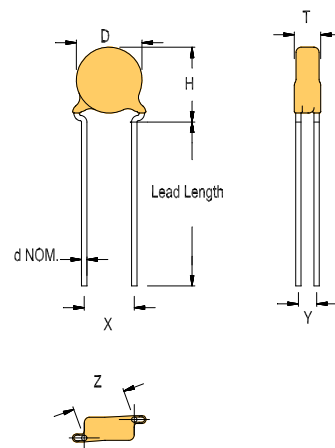
P.O. Box 3529

Hampton, Virginia 23663

(757) 723-0785 Fax (757) 722-1194

### Physical Specifications

|                       |            |
|-----------------------|------------|
| Lead Style            | 103J1      |
| X Nominal             | 0.3 in.    |
| X Tolerance           | 0.03 in.   |
| Lead Length Nominal   | TAPE in.   |
| Lead Length Tolerance | & REEL in. |
| Y Nominal             | 0.146 in.  |
| Y Tolerance           | 0.03 in.   |
| d Nominal             | 0.032 in.  |
| Wire Gauge            | 20 AWG     |
| Minimum Marking       | Z301-80UL  |
| Nominal Disk Size     | 14 mm      |
| D Maximum             | 0.65 in.   |
| T Maximum             | 0.268 in.  |
| H Maximum             | 0.775 in.  |



\* Contact Maida for a more detailed configuration drawing.

### Safety Agency Recognitions

|                     |               |
|---------------------|---------------|
| UL 1449 File Number | E86730        |
| UL 1414 File Number | E38785        |
| CSA File Number     | LR33468       |
| VDE File Number     | 40017480      |
| SEV File Number     | 96.7 70250.01 |