



Date: 06/09/2009

MAIDA STYLE NUMBER 20FM511K

MAIDA ITEM NUMBER 01-2386

**VARISTOR SPEC SHEET**

**Electrical Specifications**

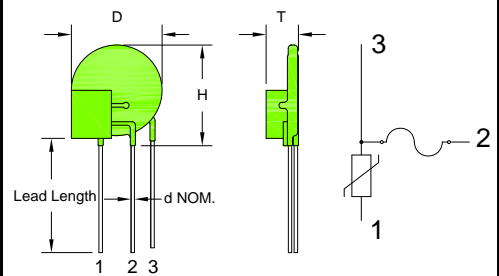
|                                    |       |     |
|------------------------------------|-------|-----|
| Continuous AC Voltage              | 320   | VAC |
| Continuous DC Voltage              | 415   | VDC |
| Maximum DC Leakage @ 415 VDC       | 200   | uA  |
| Low Varistor Voltage Limit         | 459   | VDC |
| High Varistor Voltage Limit        | 561   | VDC |
| Nominal Varistor Voltage           | 510   | VDC |
| Current for Varistor Voltage       | 1     | mA  |
| Maximum Clamp Voltage              | 845   | V   |
| Maximum Clamp Voltage Test Current | 100   | A   |
| Peak Current Rating (1 Pulse)      | 10000 | A   |
| Peak Current Rating (2 Pulse)      | 6000  | A   |
| Energy Rating (8X20us)             | 380   | J   |
| Energy Rating (10X1000us)          | 380   | J   |
| Typical Capacitance                | 780   | pF  |
| Impulse Response Time              | < 50  | ns  |
| Minimum Hipot of Coating           | 2500  | VDC |
| Minimum I.R. of Coating            | 1000  | MΩ  |

**Physical Specifications**

|                       |                |
|-----------------------|----------------|
| Lead Style            |                |
| X Nominal             | 0.492 in.      |
| X Tolerance           | 0.039 in.      |
| Lead Length Nominal   | 1.00 in.       |
| Lead Length Tolerance | min. in.       |
| Y Nominal             | 0.217 in.      |
| Y Tolerance           | 0.03 in.       |
| d Nominal             | 0.04 in.       |
| Wire Gauge            | 18 AWG         |
| Minimum Marking       | MDC-FV-20M511K |
| Nominal Disk Size     | 20 mm          |
| D Maximum             | 0.945 in.      |
| T Maximum             | 0.453 in.      |
| H Maximum             | 1.024 in.      |

**Thermal Specifications**

|                                    |       |      |
|------------------------------------|-------|------|
| Minimum Operating Temperature      | -55   | °C   |
| Maximum Operating Temperature      | 85    | °C   |
| Varistor Voltage Temperature Coeff | -0.05 | %/°C |
| Minimum Storage Temperature        | -55   | °C   |
| Maximum Storage Temperature        | 125   | °C   |
| Current/Energy Derating Above 85°C | -2.5  | %/°C |



\* Contact Maida for a more detailed configuration drawing.

**Notes**

**Safety Agency Recognitions**

|                     |         |
|---------------------|---------|
| UL 1449 File Number | E321173 |
| UL 1414 File Number |         |
| CSA File Number     |         |
| VDE File Number     |         |
| SEV File Number     |         |



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