



Date: 08/02/2010

# HIGH ENERGY SERIES

MAIDA STYLE NUMBER D7780ZOV681RA1800

MAIDA ITEM NUMBER 01-1083

**VARISTOR SPEC SHEET**

### Electrical Specifications

Continuous AC Voltage	680	VAC
Continuous DC Voltage	860	VDC
Maximum DC Leakage @ 860 VDC	200	uA
Low Varistor Voltage Limit	962	VDC
High Varistor Voltage Limit	1175	VDC
Nominal Varistor Voltage	1069	VDC
Current for Varistor Voltage	1	mA
Maximum Clamp Voltage	1800	V
Maximum Clamp Voltage Test Current	500	A
Peak Current Rating (1 Pulse)	70000	A
Peak Current Rating (2 Pulse)	52000	A
Energy Rating (8X20us)	2500	J
Energy Rating (10X1000us)	2500	J
Typical Capacitance	1700	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	256
X Nominal	1 in.
X Tolerance	0.02 in.
Y Nominal	0.264 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	Z681-1800UL
Nominal Disk Size	53 mm
D Maximum	2.4 in.
T Maximum	0.414 in.
H Maximum	3.075 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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