

MDE Semiconductor, Inc.

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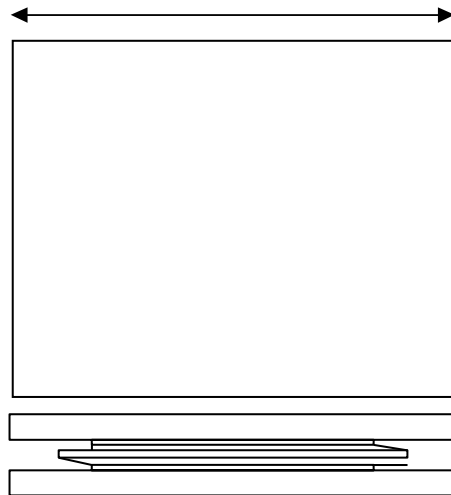
MAX20KA Cell Series

Surface Mount Power Transient Voltage Suppressor

Stand-off Voltage 16 to 136 Volts

FEATURES

- Glass passivated junction
- Bi-directional
- RoHS Compliant
- 20000A surge capability at 8 x 20µsec waveform (per IEC-61000-4-5)
- Excellent clamping capability
- Flammability Classification 94V-0
- Operating and storage Temp -40°C to +125°C



See Demensions on Page 2

MECHANICAL DATA

Terminals: Ag Plated Axial leads, solderable per MIL-STD-750, Method 2026

Mounting Position: Any

Weight: 8.0 ± 1g

DEVICES FOR BIPOLAR APPLICATIONS

Bidirectional use C or CA Suffix. Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND CHARACTERISTICS

PART NUMBER	REVERSE STAND-OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN. @ I_T	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX. @ I_T	TEST CURRENT I_T (mA)	MAXIMUM CLAMPING VOLTAGE @ I_{pp} Vc(V)				REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$
					V_{CL} (8/20 μ S) Volts	I_{pp} (8/20 μ S) Amps	V_{CL} (10/350 μ S) Volts	I_{pp} (10/350 μ S) Amps	
MAX20KA-016CA	16.0	17.50	19.30	10	30	20,000	28	3,200	5
MAX20KA-022CA	22.0	23.75	26.25	10	42	20,000	40	3,200	5
MAX20KA-058CA	58.0	64.00	70.00	10	120	20,000	107	3,200	5
MAX20KA-063CA	63.0	68.00	75.00	10	125	20,000	110	3,200	5
MAX20KA-066CA	66.0	72.00	80.00	10	130	20,000	120	3,200	5
MAX20KA-136CA	136.0	142.5	157.5	10	260	20,000	240	3200	5

NOTE 1 : Using 8x20µS Wave shape defined in IEC 61000-4-5

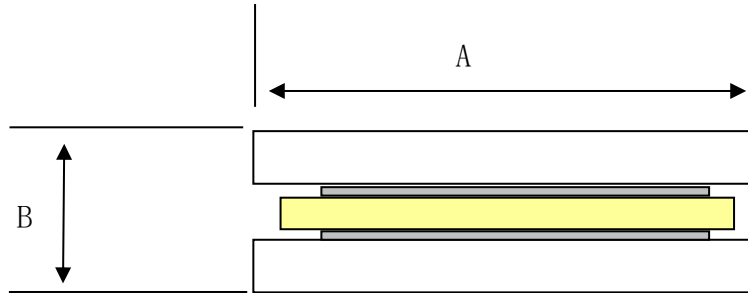
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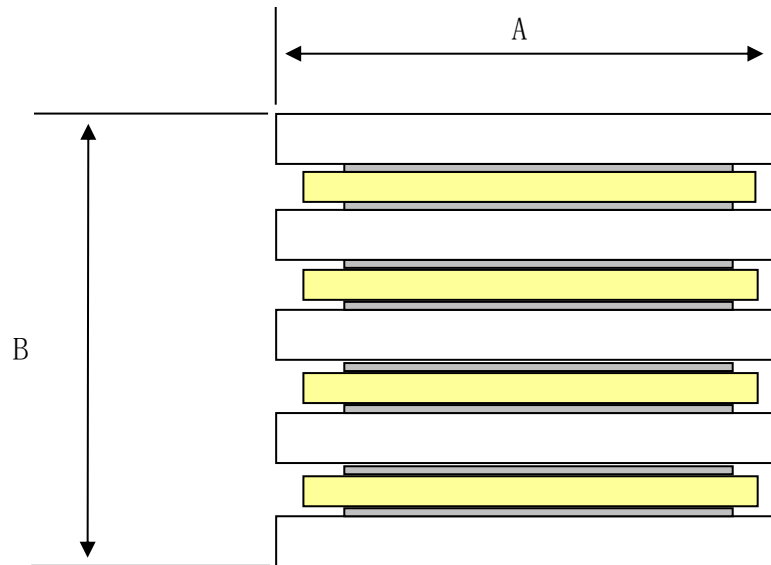
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Cell Outline Dimensions



MAX20KA-016CA/022CA CELL	mm		inch	
Dimension	MIN	MAX	MIN	MAX
A	12.80	13.20	0.504	0.520
B	1.30	1.50	0.051	0.059



MAX20KA-058/063/066CA CELL	mm		inch	
Dimension	MIN	MAX	MIN	MAX
A	12.80	13.20	0.504	0.520
B	3.80	4.20	0.150	0.165

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Ratings and Characteristic Curves (TA=25°C unless otherwise noted)

Fig.1 - Test Pulse Waveform

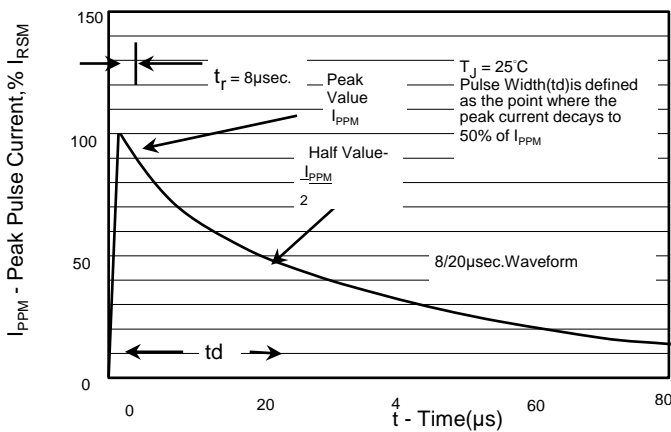


Fig.2 - Pulse Derating Curve

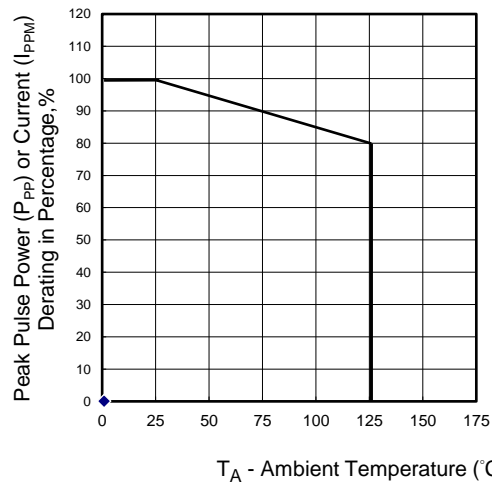


Fig. 3 - Peak Pulse Power Rating Curve

