

MDE Semiconductor, Inc.

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MAX20KA Series

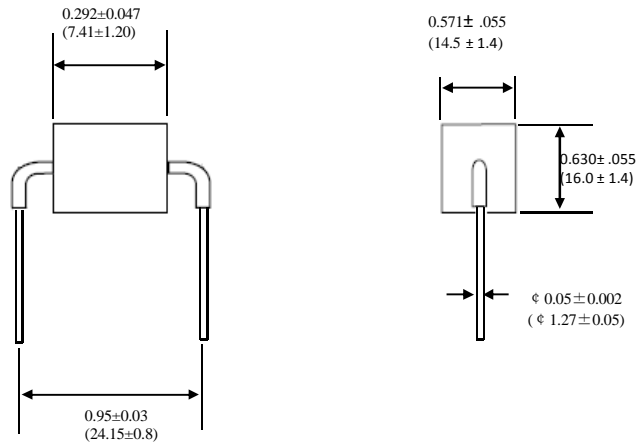
Preliminary

HIGH CURRENT Transient Voltage Suppressor

Stand-off Voltage 16 to 136 Volts

FEATURES

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



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} $V_C(V)$				REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$
					V_{CL} (8/20 μS) Volts	I_{PP} (8/20 μS) Amps	V_{CL} (10/350 μS) Volts	I_{PP} (10/350 μS) 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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Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 - Test Pulse Waveform

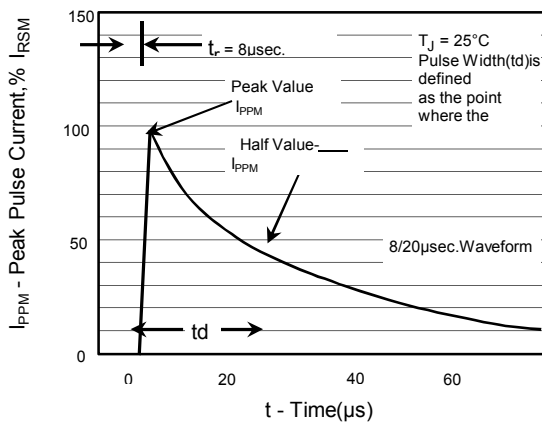


Fig.2 - Pulse Derating Curve

