

15KA-SERIES DATA SHEET

AXIAL LEADED TRANSIENT VOLTAGE SUPPRESSOR

FEATURES

- Glass passivated chip junction
- Bi-directional
- RoHS compliant
- 15000A surge capability at 8 x 20μsec waveform
(per IEC-61000-4-5)
- Excellent clamping capability
- Coating powder has Underwriters Laboratory
Flammability Classification 94V-0
- Operation and storage temperature : -55℃~150℃



for reference only

MECHANICAL DATA

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

Mounting Position : any

Electrical Characteristics

PART NUMBER	REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	REVERSE LEAKAGE @ $V_{RWM} I_R$ (μA)	BREAKDOWN VOLTAGE $V_{BR}(V) @ I_T$		TEST CURRENT I_T (mA)	MAXIMUM CLAMPING VOLTAGE @ $I_{pp} V_C(V)$ (8/20uS)	PEAK PULSE CURRENT $I_{pp} (A)$ (8/20uS) (NOTE 1)
			Min.	Max.			
BI-POLAR							
15KA-012C	12	10	13	15	10	24	15,000
15KA-015C	15	10	16	19	10	31	15,000
15KA-025C	25	10	27	31	10	50	15,000
15KA-030C	30	10	33	37	10	60	15,000
15KA-033C	33	10	36	41	10	64	15,000
15KA-054C	54	10	60	67	10	105	15,000
15KA-058C	58	10	64	70	10	110	15,000
15KA-066C	66	10	72	80	10	120	15,000
15KA-076C	76	10	85	95	10	140	15,000
15KA-078C	78	10	88	98	10	145	15,000
15KA-190C	190	10	200	240	10	290	15,000
15KA-300C	300	10	335	371	10	560	15,000

NOTE 1 : Using 8*20 uS wave shaped difined in IEC 61000-4-5

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Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Peak Pulse Power Rating

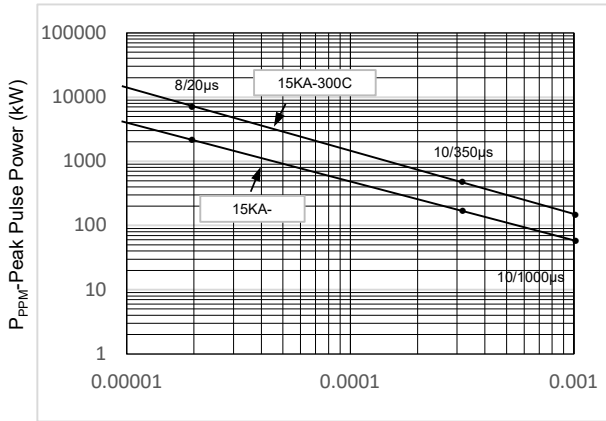


Fig.2 - Pulse Derating Curve

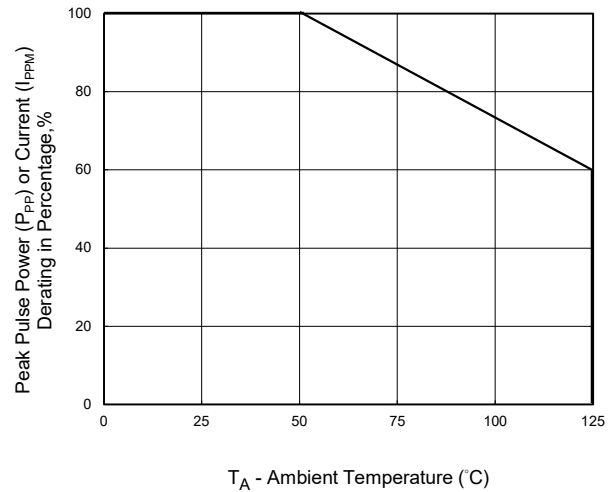


Fig. 3 - Pulse Waveform

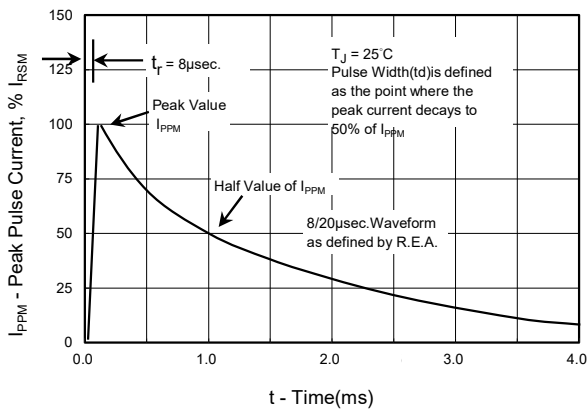


Fig. 4 - Typical V_{BR} Vs Junction Temperature

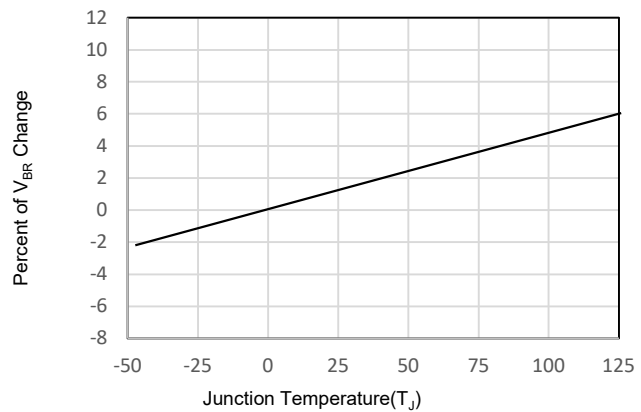
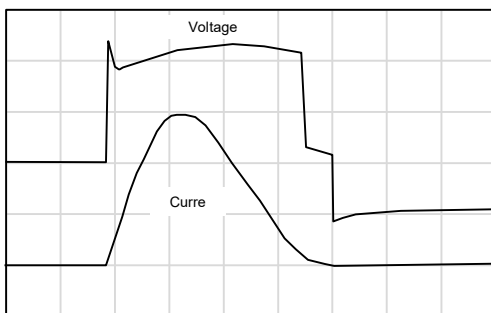
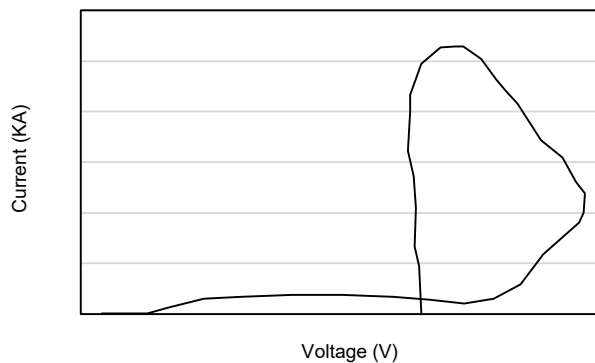


Fig. 5 - Surge Response (8/20μs waveform)



Note :
The powerdissipation causes a change in avalanche voltage during the surge and the avalanche voltage

Fig. 6 - Surg Response



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Fig. 7 - Non Lead-free profile

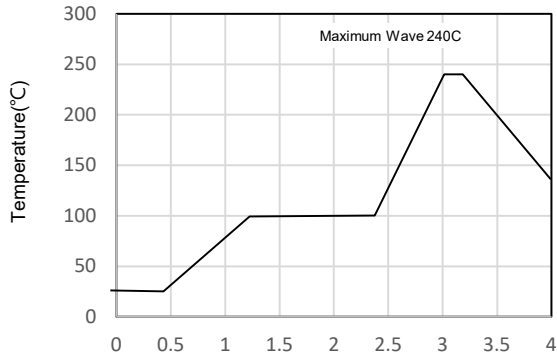
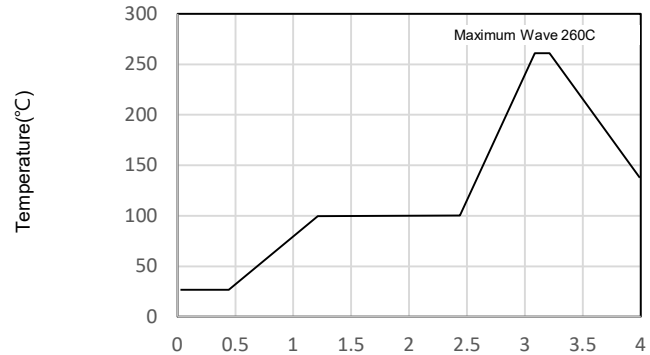
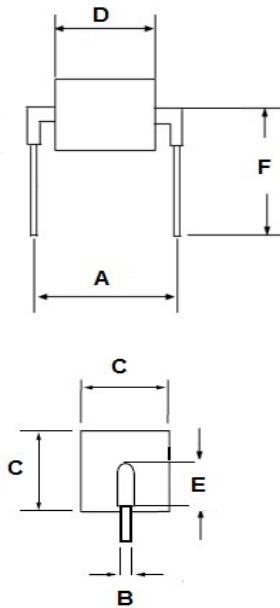


Fig. 8 - Lead-free profile



Dimensions



Dimensions	Inchs	Millimeters
A	0.950+/-0.028	24.15+/-0.72
B	0.049+/- 0.0019	1.25+/-0.05
C	0.630 max	16.0 max
D-012C/015C	0.196 max	5.0max
D-025C/030C	0.236 max	6.0 max
D-033C to 078C	0.275max	7.0 max
D-190C	0.551 max	14.0 max
D-300C	0.826 max	21.0 max
E	0.315 max	8.0 max
F	0.590 min	15.0 min