

10KA-SERIES DATA SHEET

AXIAL LEADED TRANSIENT VOLTAGE SUPPRESSOR

FEATURES

- Glass passivated chip junction
- Bi-directional
- RoHS compliant
- 10000A 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°C~150°C



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							
10KA-015C	15	10	16	19	10	28	10,000
10KA-033C	33	10	36	41	10	64	10,000
10KA-058C	58	10	64	70	10	110	10,000
10KA-066C	66	10	73	82	10	120	10,000
10KA-076C	76	10	85	95	10	140	10,000
10KA-100C	100	10	110	130	10	180	10,000
10KA-170C	170	10	180	220	10	260	10,000
10KA-190C	190	10	200	240	10	290	10,000
10KA-240C	240	10	250	285	10	340	10,000
10KA-270C	270	10	280	320	10	380	10,000
10KA-320C	320	10	336	368	10	440	10,000
10KA-380C	380	10	401	443	10	520	10,000
10KA-430C	430	10	440	490	10	625	10,000
10KA-470C	470	10	490	530	10	670	10,000

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

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

Fig. 1 - Peak Pulse Power Rating

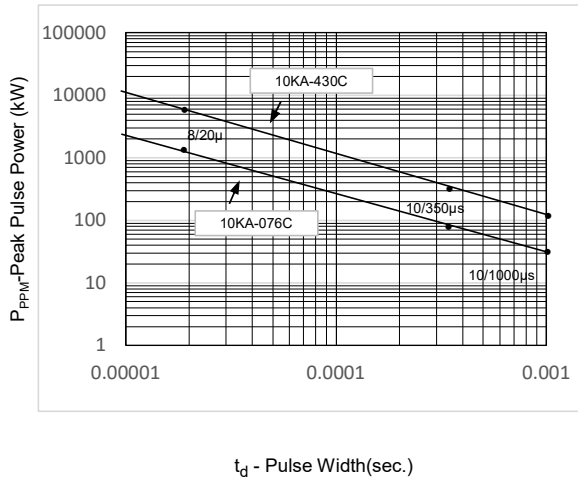


Fig.2 - Pulse Derating Curve

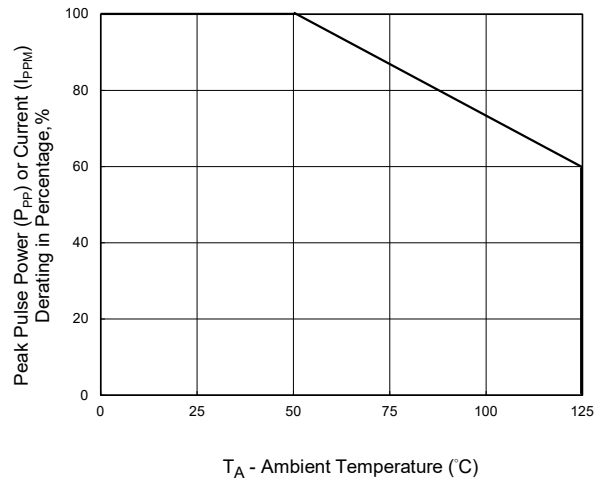


Fig. 3 - Pulse Waveform

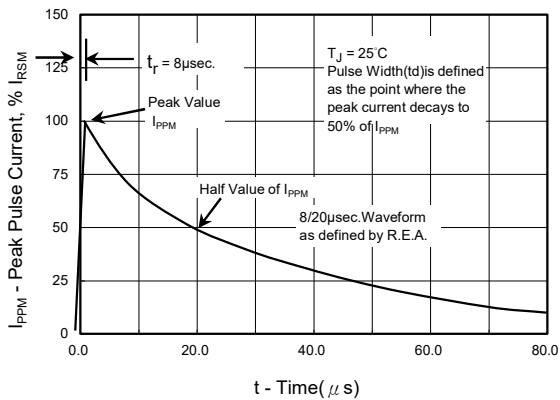


Fig. 4 - Typical V_{BR} Vs Junction Temperature

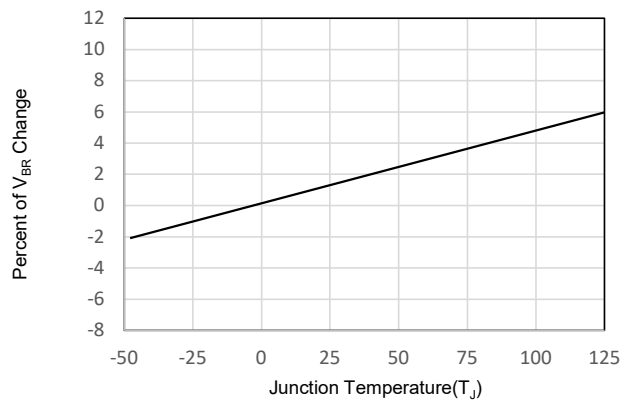
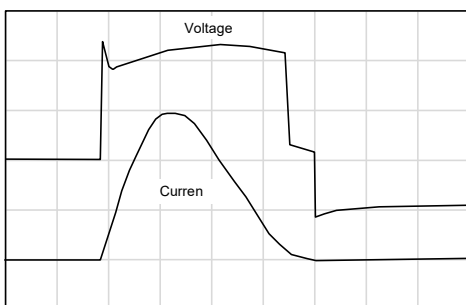
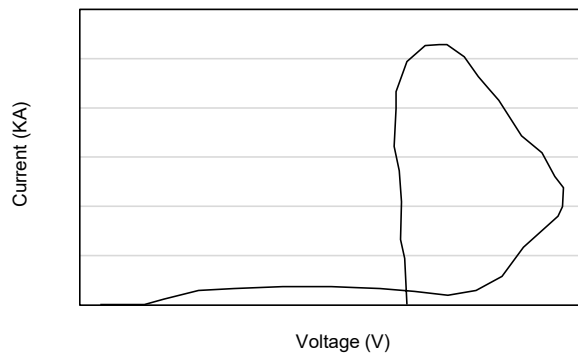


Fig. 5 - Surge Response (8/20 μ s waveform)



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

Fig. 6 - Surg Response



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Fig. 7 - Non Lead-free profile

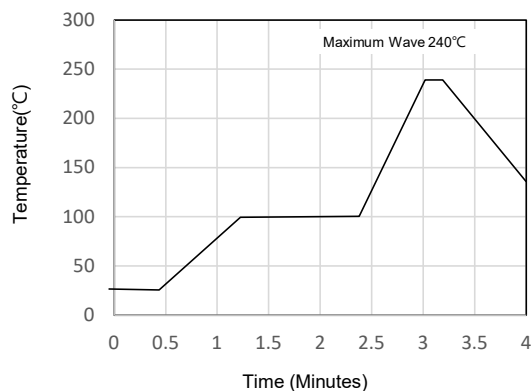
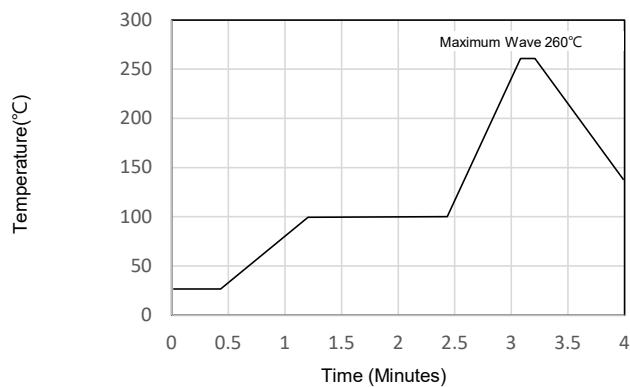
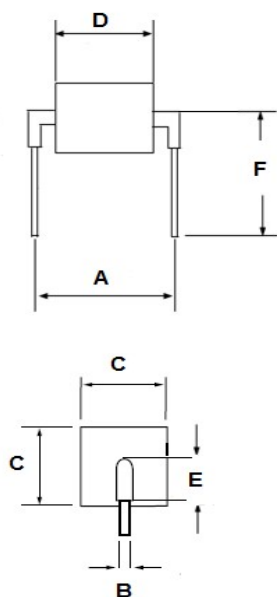


Fig. 8 - Lead-free profile



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-015C	0.157 max	4.0max
D-033C/058C	0.196 max	5.0max
D-066C/076C	0.236 max	6.0 max
D-100C	0.275max	7.0 max
D-170C/190C	0.433 max	11.0 max
D-240C	0.511 max	13.0 max
D-270C	0.551 max	14.0 max
D-320C/380C/430C	0.748 max	19.0 max
D-470C	0.826 max	21.0 max
E	0.315 max	8.0 max
F	0.590 min	15.0 min