

5KP220 ~ 5KP400CA

V_{RM} : 220 - 400 Volts

P_{PK} : 5000 Watts

FEATURES :

- * 5000W Peak Pulse Power
- * Excellent clamping capability
- * Low incremental surge resistance
- * Fast response time : typically less than 1.0 ps from 0 volt to V_{BR(min.)}
- * Typical I_R less than 1μA above 10V
- * Pb / RoHS Free

MECHANICAL DATA

- * Case : Void-free molded plastic body
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 2.1 grams

DEVICES FOR BIPOLAR APPLICATIONS

For Bi-directional use C or CA Suffix
Electrical characteristics apply in both directions

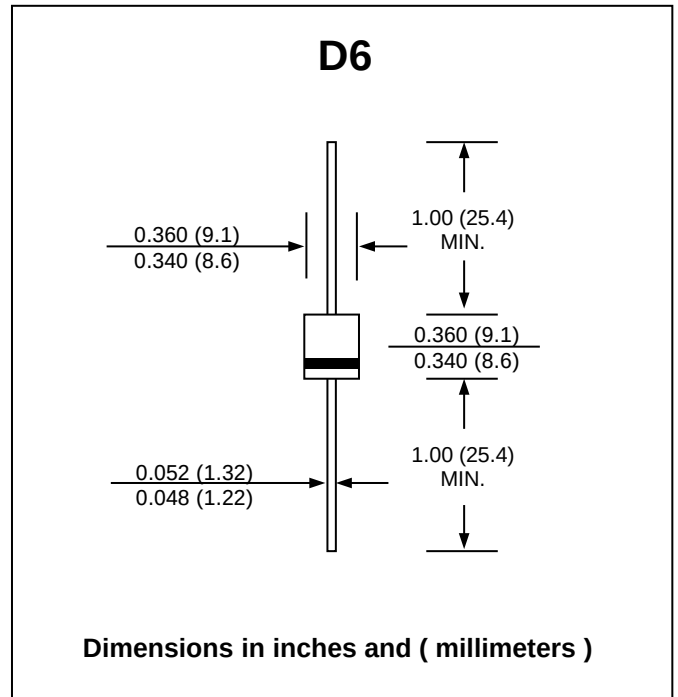
MAXIMUM RATINGS (Rating at 25 °C ambient temperature unless otherwise specified.)

Rating	Symbol	Value	Unit
Peak Pulse Power Dissipation at t _p = 1ms (Note 1, Fig. 4)	P _{PK}	Minimum 5000	W
Steady State Power Dissipation at T _L = 75 °C Lead Lengths 0.375", (9.5mm) (Note 2)	P _D	8.0	W
Operating and Storage Temperature Range	T _J , T _{STG}	- 55 to + 150	°C

Notes:

- (1) Non-repetitive Current pulse, per Fig. 2 and derated above Ta = 25 °C per Fig. 1
- (2) Mounted on Copper Leaf area of 0.79 in² (20mm²).

TRANSIENT VOLTAGE SUPPRESSOR



ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

TYPE	Breakdown Voltage @ I _T (Note 1)			Reverse Stand off Voltage	Maximum Reverse Leakage @ V _{RM}	Maximum Peak Pulse Current (Note2)	Maximum Clamping Voltage @ I _{PPM}	Maximum Temperature Coefficient of V _{BR} (%/°C)
	V _{BR} (V)		I _T	V _{RM}	I _R	I _{PPM}	V _C	
	Min.	Max.	(mA)	(V)	(μA)	(A)	(V)	
5KP220	244.0	299.0	5.0	220	10	13	392	0.200
5KP220A	244.0	271.0	5.0	220	10	14	356	0.200
5KP250	277.0	340.0	5.0	250	10	11	445	0.222
5KP250A	277.0	308.0	5.0	250	10	12	404	0.222
5KP320	355.0	435.0	5.0	320	10	9	570	0.235
5KP320A	355.0	395.0	5.0	320	10	10	517	0.235
5KP360	399.0	486.9	5.0	360	10	8	641	0.240
5KP360A	399.0	444.0	5.0	360	10	9	582	0.240
5KP400	443.0	543.0	5.0	400	10	7	712	0.250
5KP400A	443.0	493.0	5.0	400	10	8	647	0.250

Notes:

- (1) V_{BR} measured after I_T applied for 300 μ s., I_T = square wave pulse or equivalent.
- (2) Surge Current waveform per Fig. 3 and Derate per Fig. 2
- (3) For Bi-directional use C or CA Suffix.

RATING AND CHARACTERISTIC CURVES (5KP220 ~ 5KP400CA)

FIG.1 - PULSE DERATING CURVE

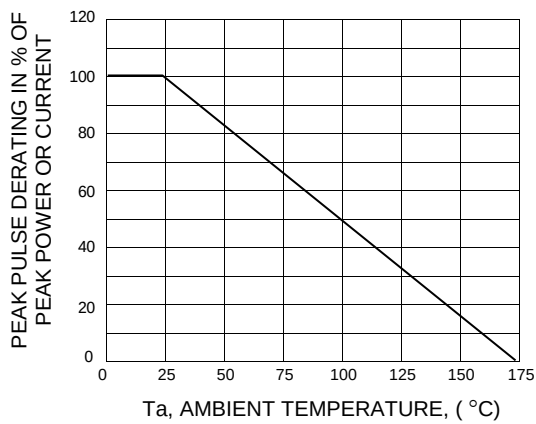


FIG.2 - PULSE WAVEFORM

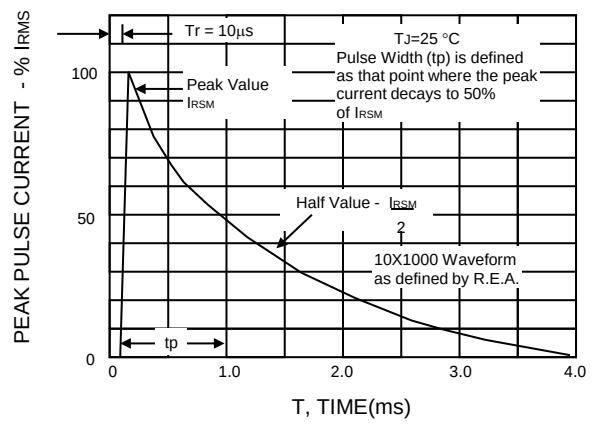


FIG.3 - STEADY STATE POWER DERATING

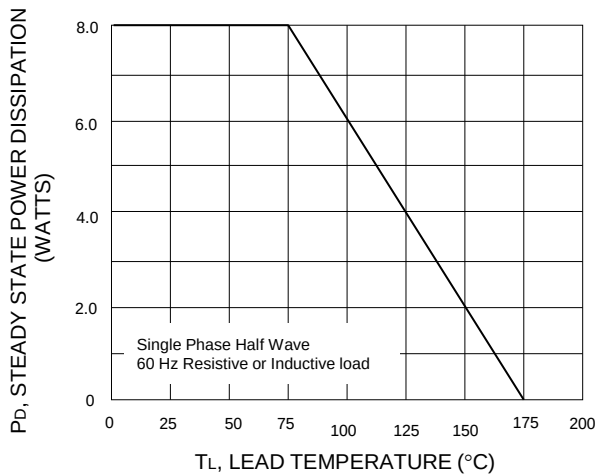


FIG.4 - PULSE RATING CURVE

