

5KP130CA

V_{RM} : 130 Volts

P_{PK} : 5000 Watts

FEATURES :

- * 5000W Peak Pulse Power
- * Excellent clamping capability
- * 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

MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Unit
Peak Pulse Power Dissipation at tp = 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. 5 and derated above Ta = 25 °C per Fig. 1
- (2) Mounted on Copper Leaf area of 0.79 in² (20mm²).

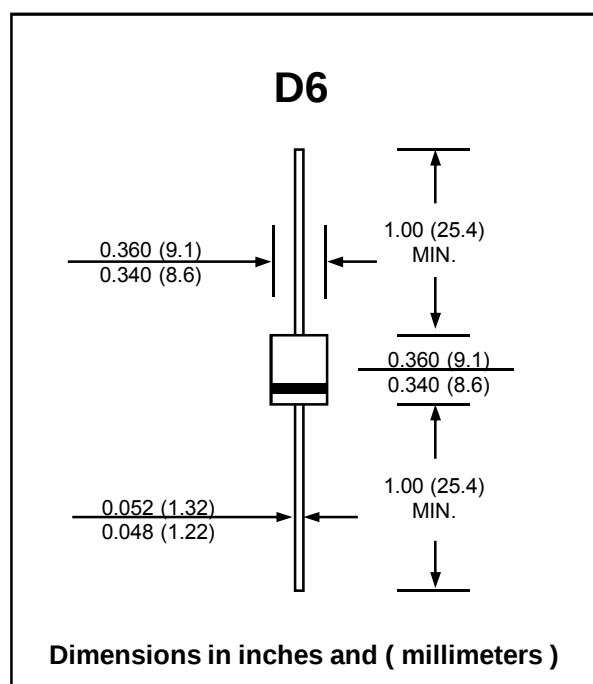
ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

TYPE	Breakdown Voltage @ I _T (Note 1)			Reverse Stand off Voltage	Maximum Reverse Leakage @ V _{RM}	Maximum Clamping Voltage @ I _{PP}	Maximum Peak Pulse Current
	V _{BR} (V)		I _T	V _{RM}	I _R	V _C	I _{PP}
	Min.	Max.	(mA)	(V)	(μA)	(V)	(A)
(Bi-directional)							
5KP130CA	144	159	5	130	10	209	24

Note:

- (1) V_{BR} measured after I_T applied for 300 μs., I_T = square wave pulse or equivalent.

BI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR



RATING AND CHARACTERISTIC CURVES (5KP130CA)

FIG.1 - PULSE DERATING CURVE

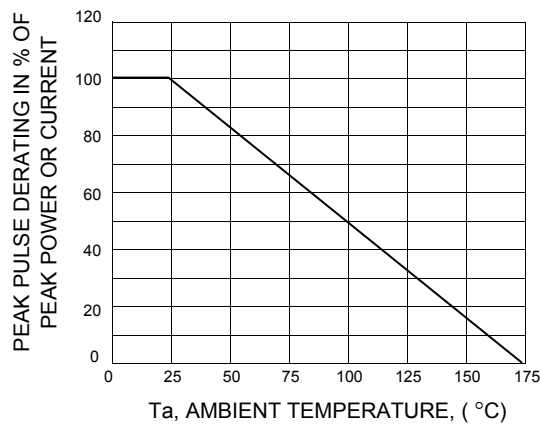


FIG.2 - PULSE WAVEFORM

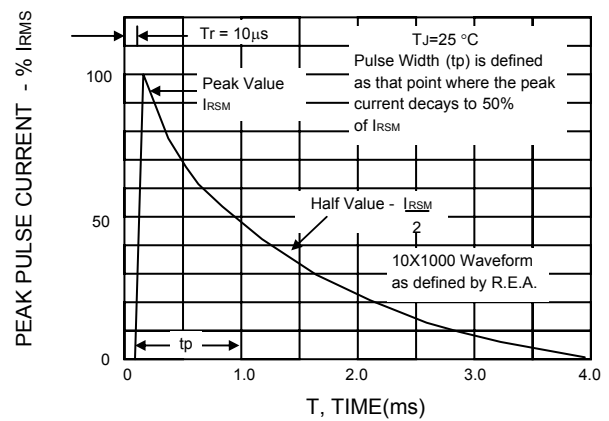


FIG.3 - STEADY STATE POWER DERATING

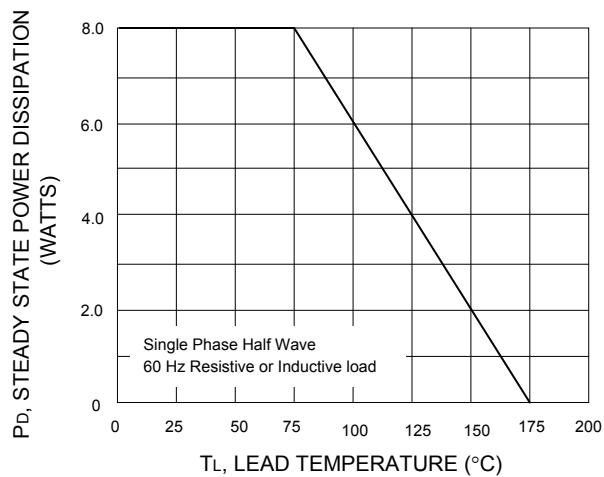


FIG.4 - PULSE RATING CURVE

