

3KP33A

TRANSIENT VOLTAGE SUPPRESSOR

V_{RM} : 33 Volts

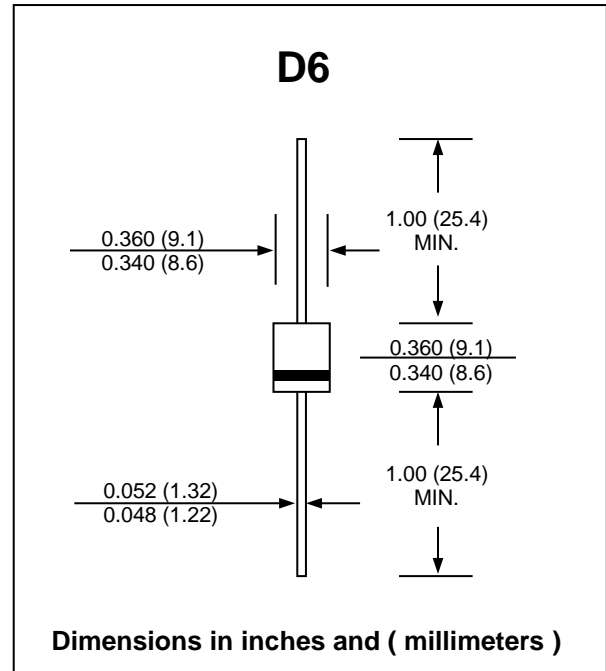
P_{PK} : 3000 Watts

FEATURES :

- * 3000W 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



MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 μs waveform (1)	P _{PK}	Minimum 3000	W
Peak Pulse Current on 10/1000 s waveform ⁽¹⁾	I _{PPM}	See Next Table	
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 + 175	°C

Notes :

- (1) Non-repetitive Current pulse, per Fig. 3 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			Reverse Stand off Voltage V _{RM} (V)	Maximum Reverse Leakage @ V _{RM} I _R (μA)	Maximum Clamping Voltage @ I _{PP} V _C (V)	Maximum Peak Pulse Current I _{PP} (A)
	V _{BR} (V)		I _T				
	Min.	Max.	(mA)				
3KP33A	36.7	42.2	1.0	33	5	53.3	56.2

RATING AND CHARACTERISTIC CURVES (3KP33A)

FIG.1 - PULSE DERATING CURVE

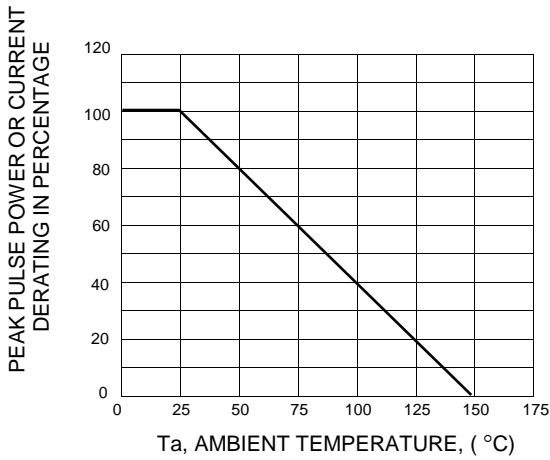


FIG.2 - TYPICAL JUNCTION CAPACITANCE

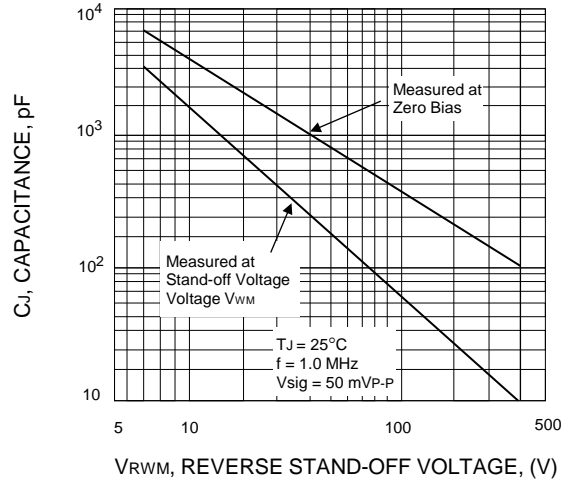


FIG.3 - PULSE WAVEFORM

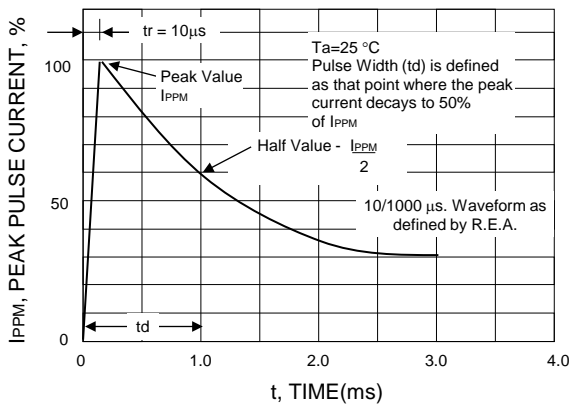


FIG.4 - PEAK PULSE POWER RATING CURVE

