

EPS5 ~ EPS48

V_R : 5.0 - 48 Volts
P_{PK} : 1000 Watts

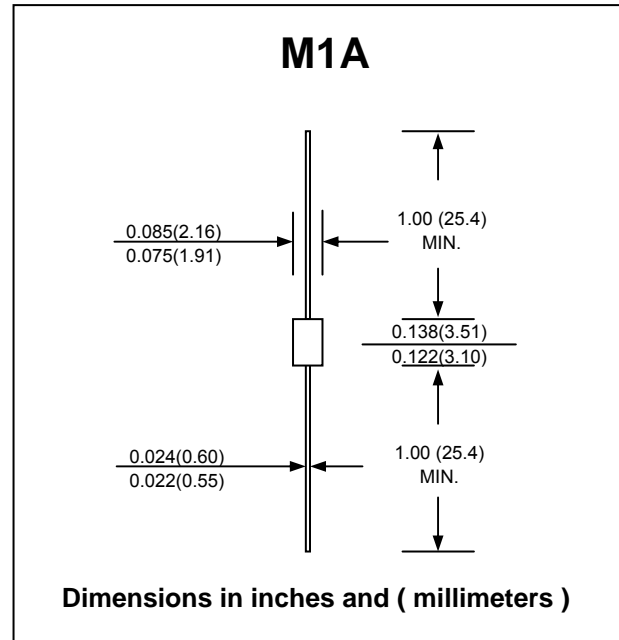
FEATURES :

- * Glass passivated junction chip
- * Bidirectional
- * 1000 W for 8 x 20 microsec pulse
- * 150 W for 1 millisec pulse
- * Clamping time in pico seconds
- * Extremely low leakage current
- * **BP / Rosh Free**

MECHANICAL DATA :

- * Case : M1A Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Mounting position : Any
- * Weight : 0.20 gram (approximately)

BI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR



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

Rating	Symbol	Value	Unit
Peak Pulse Power (8 x 20 microsec pulse)	P _{PK}	1000	W
Peak Pulse Power (1 millisec pulse)	P _{PK}	150	W
Power Continuous at T _L = 75 °C, L = 0.375"	P _D	2.5	W
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 to + 175	°C

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

Type No.	Stand-off Voltage	Minimum Breakdown Voltage @ 1mA	Maximum Reverse Leakage @ V _R	Maximum Clamping Voltage @ 10 A	Maximum Temperature Co-efficient of VBR
	V _R	V _{BR} (V)	I _R	V _C	of VBR
	(V)	Min.	(µA)	(V)	(% / °C)
EPS5	5	6.0	50	9.5	0.030
EPS8	8	9.0	2	13.7	0.040
EPS12	12	13.8	1	21.6	0.050
EPS15	15	16.7	1	26.0	0.055
EPS17	17	19.0	1	29.2	0.060
EPS24	24	28.4	1	43.2	0.070
EPS28	28	31.0	1	47.8	0.075
EPS33	33	36.8	1	56.7	0.080
EPS48	48	54.0	1	84.3	0.090

RATING AND CHARACTERISTIC CURVES (EPS5 ~ EPS48)

FIG.1 - CURRENT IMPULSE WAVEFORM

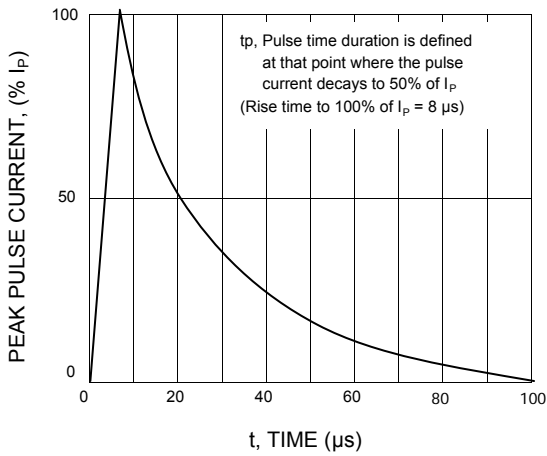


FIG.2 - DREATING CURVE

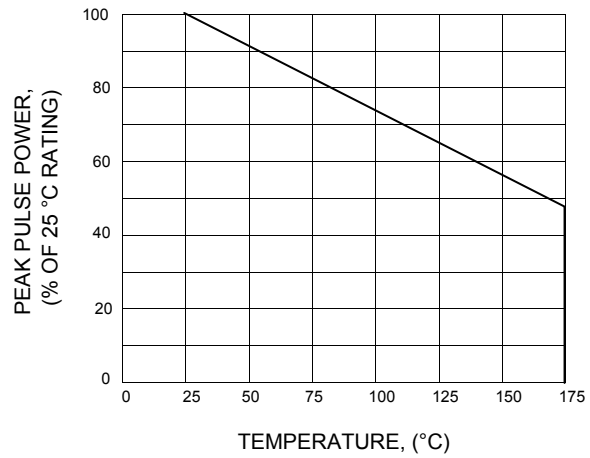


FIG.3 - TYPICAL CAPACITANCE VS. STAND-OFF VOLTAGE

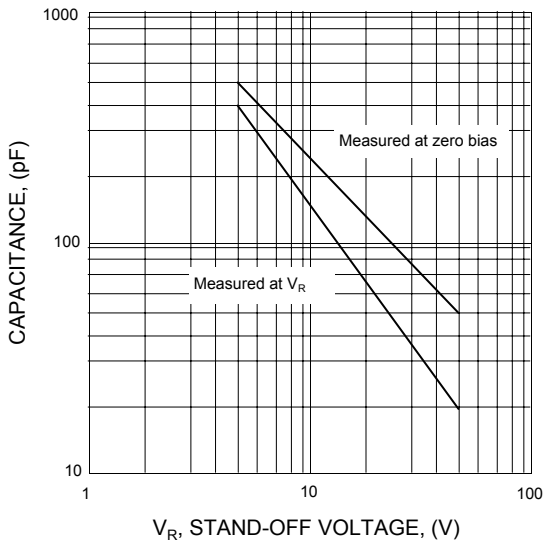


FIG.4 - PEAK PULSE POWER VS. PULSE DURATION

