DIGITRON SEMICONDUCTORS

EPS5 SERIES

TVS BIDIRECTIONAL, 5 TO 48V, 1000W

MAXIMUM RATINGS

Characteristics	Value
Stand-off voltage	5 to 48V
Peak pulse power (8 x 20 microsec pulse)	1000W
Peak pulse power (1 millisec pulse)	150W
Power continuous (T_L = 3/8")	2.5W
Storage and operating temperature range	-65° to +175°C

ELECTRICAL CHARACTERISTICS @25°C

Part number	Stand-off voltage V_R	Minimum breakdown voltage $B_{V(min)}$ @ 1mA	Maximum leakage current I_R @ V_R	Maximum peak current I_P	Maximum clamping voltage V_C @ 10A	Maximum temperature coefficient B_V
	V	V	µA	A	V	% / °C
EPS5	5	6.0	50	89.4	9.5	0.030
EPS8	8	9.0	2	62.1	13.7	0.040
EPS12	12	13.8	1	40.3	21.6	0.050
EPS15	15	16.7	1	33.9	26.0	0.055
EPS17	17	19.0	1	30.8	29.2	0.060
EPS24	24	28.4	1	22.0	43.2	0.070
EPS28	28	31.0	1	19.2	47.8	0.075
EPS33	33	36.8	1	16.4	56.7	0.080
EPS48	48	54.0	1	11.2	84.3	0.090

Figure 1. Current Impulse Waveform

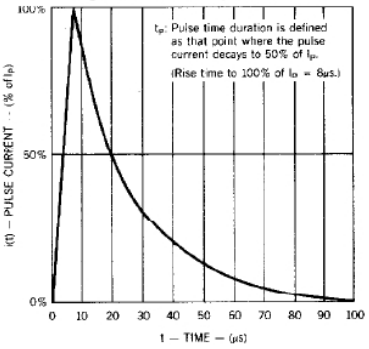


Figure 2. Peak Pulse Power vs. Pulse Duration

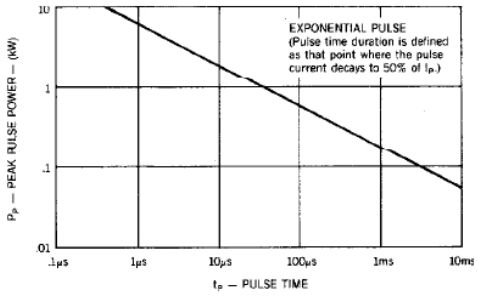


Figure 3. Derating Curve

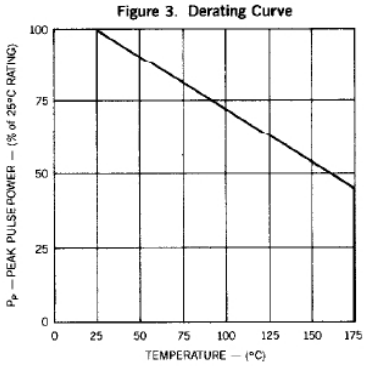
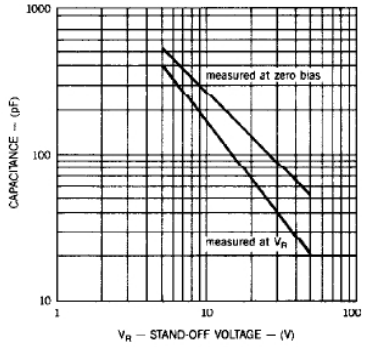


Figure 4. Typical Capacitance vs. Stand-Off Voltage



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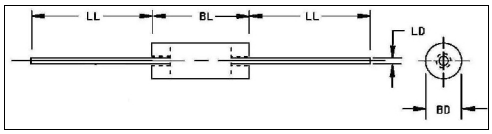
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TVS BIDIRECTIONAL, 5 TO 48V, 1000W



Dim	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.095	-	2.413
BL	-	0.180	-	4.572
LD	0.028	0.032	0.711	0.813
LL	0.700	-	17.800	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).
Available as “HR” (high reliability) screened per MIL-PRF-19500, JANTX level. Add “HR” suffix to base part number.

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