

MIL-DTL-38999 Series III Type TVS Connectors

TVS Diode Power Selection Chart

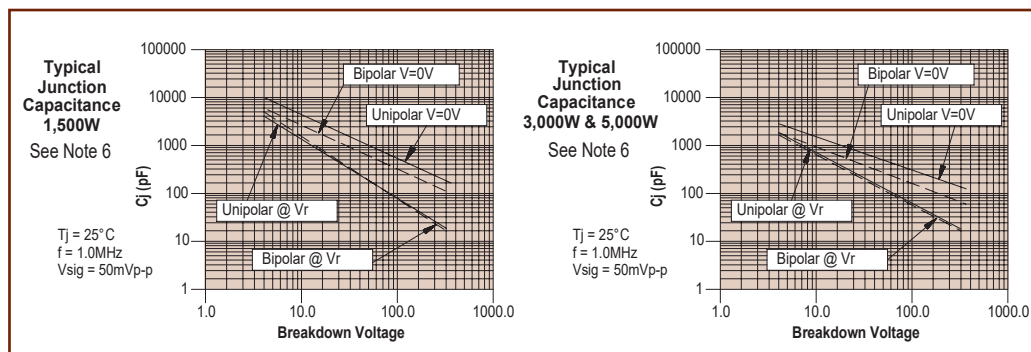
Typical Junction Capacitance



Table IV: TVS Diode Power Selection Chart

RTCA DO-160 Waveform	Level	Open Circuit Voltage/ Short Circuit Current V/A	Reverse Standoff Voltage	Maximum Clamping Voltage	Recommended Minimum Diode Power (Watts)
Waveform 3 Damped Sine 	1	100/4	5 to 60	9.2 to 96.8	600
	2	250/10	5 to 150	9.2 to 243	600
	3	600/24	5 to 170	9.2 to 275	600
	4	1500/60	5 to 54	9.2 to 87.1	600
			58 to 150	93.6 to 243	1,500
			160 to 170	259 to 275	3,000
	5	3200/128	5 to 22	9.2 to 35.5	600
			24 to 60	38.9 to 96.8	1,500
			64 to 130	103 to 209	3,000
			150 to 170	243 to 275	5,000
Waveform 4 Double Exponential 6.4 X 69usec 	1	50/10	5 to 30	9.2 to 48.4	600
	2	125/25	5 to 75	9.2 to 121	600
	3	300/60	5 to 17	9.2 to 27.6	600
			18 to 26	29.2 to 42.1	3,000
			28 to 110	45.4 to 177	5,000
	4	750/150	120 to 170	193 to 275	15,000*
			5 to 8.5	9.2 to 14.4	3,000
			9 to 60	15.4 to 96.8	5,000
	5	1600/320	64 to 170	103 to 275	15,000*
			5 to 24	9.2 to 38.9	5,000
			26 to 78	42.1 to 126	15,000*
			90	147	30,000*
Waveform 5A Double Exponential 40 X 120usec 	1	50/50	5 to 30	9.2 to 48.4	1,500
	2	125/125	5 to 75	9.2 to 121	3,000
	3	300/300	5 to 15	9.2 to 24.4	3,000
			17 to 170	26.7 to 275	15,000*
	4	750/750	180	291	30,000*
			17 to 22	26.7 to 35.5	15,000*
			30 to 48	55.2 to 77.4	30,000*
	5	1600/1600	Consult Factory		

*Consult factory for Diode Power Ratings above 5,000W



Dimensions in inches (millimeters) and are subject to change without notice.