

MPZ5-16, MPZ5-32, & MPZ5-180

**High Power Transient Voltage Suppressor
and Zener**

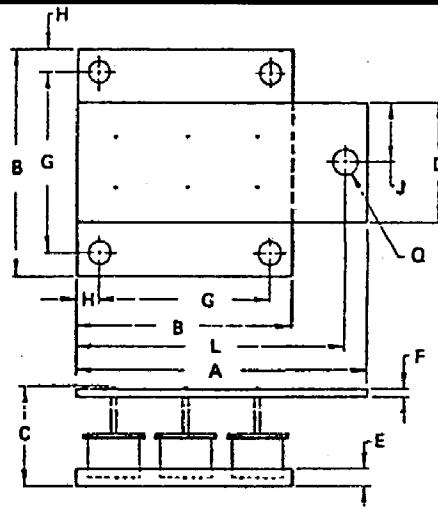
ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$, $V_I = 1.5 \text{ V max @ } 10 \text{ A}$ for all types)

Type	Rated Standoff Voltage (Note 1)		Maximum Device Clamping Factor $CF = \frac{V_Z @ I_Z(\text{pulse})}{V_Z @ I_{ZT}}$ (Note 2)	Minimum Zener Voltage		Maximum Zener Voltage Pulse Width = 1.0 ms		Maximum Standby Current $I_D @ V_{WM}$ μAdc	Typical Capacitance C (typ) @ V_{WM} μF
	V_{WM} Vdc	V_{WM} Vrms		V_Z (min) Vdc @ I_{ZT}	V_Z (max) Vdc @ I_Z (pulse)	I_{ZT} Adc	I_Z (pulse) Adc		
MPZ5-16A	14	10	1.25	16	0.4	24	200	50	0.025
MPZ5-16B	14	10	1.25	16	0.4	20	200	50	0.025
MPZ5-32A	28	20	1.25	32	0.2	50	100	50	0.011
MPZ5-32B	28	20	1.25	32	0.2	45	100	50	0.011
MPZ5-32C	28	20	1.25	32	0.2	40	100	50	0.011
MPZ5-180A	165	117	1.14	180	0.03	250	20	50	0.0012
MPZ5-180B	165	117	1.14	180	0.03	225	20	50	0.0012
MPZ5-180C	165	117	1.14	180	0.03	205	20	50	0.0012

NOTE 1: Rated Standoff Voltage (V_{WM}) is defined as normal input voltage to device for non-operating condition. If non-sinusoidal wave or dc input is present, the peak operating voltage input values for V_{WM} should be used to select device type.

NOTE 2: The maximum device clamping factor C_F is a ratio of V_Z measured at I_Z (pulse) given in the Electrical Characteristics Table divided by V_Z measured at I_{ZT} under steady state conditions. This value guarantees the sharpness of the voltage breakdown of individual devices. Figure 2 demonstrates the typical sharpness of the breakdown, and indicates the voltage regulation over a wide range of currents where the change in voltage ΔV_Z is as follows: $\Delta V_Z = V_Z @ I_Z (\text{pulse}) - V_Z @ I_{ZT}$

PACKAGE DIMENSIONS



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	50.29	51.31	1.980	2.020
B	37.59	38.61	1.480	1.520
C	-	16.51	-	0.650
D	20.24	21.01	0.797	0.827
E	2.92	3.43	0.115	0.135
F	1.32	1.83	0.052	0.072
G	29.97	30.99	1.180	1.220
H	3.56	4.06	0.140	0.160
J	10.06	10.57	0.396	0.416
L	46.74	47.74	1.840	1.860
Q	3.30	3.81	0.130	0.150

