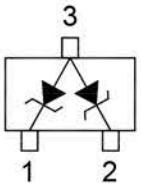
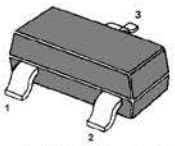
MMBZ5V6CA

Transient Voltage Suppressors

for ESD Protection





1. Cathode 2. Cathode 3. Anode
SOT-23 Plastic Package

Features

- Low leakage

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Peak Power Dissipation [1]	P_{pk}	24	W
Power Dissipation	P_D	225	mW
Junction And Storage Temperature Range	T_j ,T_{stg}	- 55 to + 150	°C

Characteristics at Ta = 25°C

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	556	°C/W
Forward Voltage at I_F = 10 mA	V_F	0.9	V

Characteristics at T_a = 25°C

Type	Marking Code	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage			Clamping Voltage [1]	
		V_{RWM}	I_R at V_{RWM}	V_{BR}		at I_T	V_C	at I_{PP}
		(V)	Max. (µA)	Min. (V)	Max. (V)	(mA)	Max. (V)	(A)
MMBZ5V6CA	1U	3	5	5.32	5.88	20	8	3

[1] Non-repetitive current pulse per Figure 2 and derate above T_A = 25°C per Figure 1.

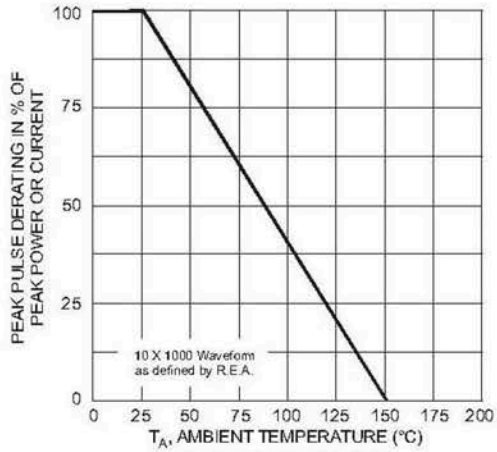


Fig. 1 Pulse Derating Curve

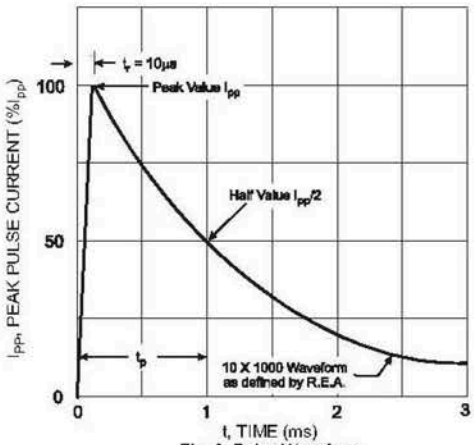


Fig. 2 Pulse Waveform

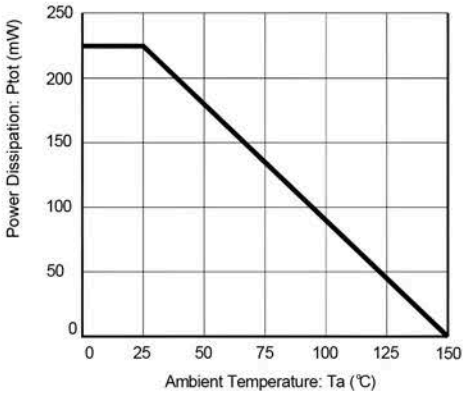


Fig.3 Power Dissipation vs Ambient Temperature

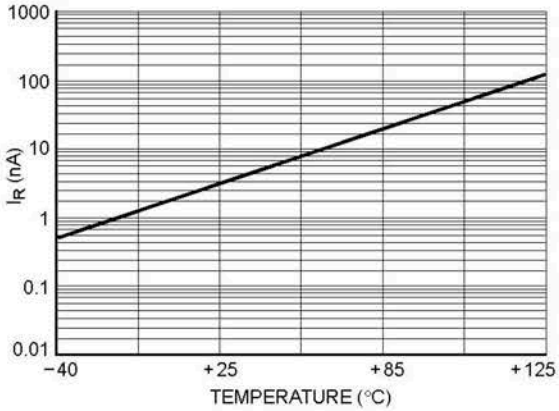


Fig.4 Typical Leakage Current versus Temperature