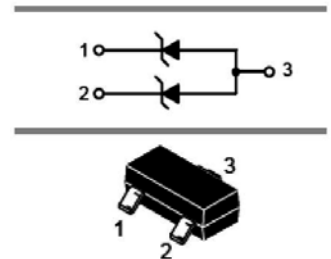


40W Peak Power Dual Surface Mount TVS



Features:

- Dual TVS in Common Anode Configuration
- 40W Peak Power Dissipation Rating @ 1ms
- 225mW Power Dissipation
- Ideally Suited For Automatic insertion
- Low Leakage



SOT-23

Applications:

Transient overvoltage protection capability

Max. Rating @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward voltage @ I _F = 10mA	V _F	0.9	V
Peak power dissipation @ 1ms	P _{PK}	40	W
Total power dissipation	P _D	225	mW
Thermal resistance, junction to ambient air	R _{θJA}	556	°C/W
Operating and storage temperature range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified 40 WATTS

V _{RMS}	I _R @ V _{RMS}	Breakdown voltage				V _{CC} @ I _{PP}		Typical Temperature Coefficient
		V _{BR} (V)			@ I _T	V _{CC}	I _{PP}	T _C
Volts	nA	Min	Nom	Max	mA	V	A	% / °C
14.5	50	17.1	18	18.9	1	25	1.6	+0.09

40W Peak Power Dual Surface Mount TVS



Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

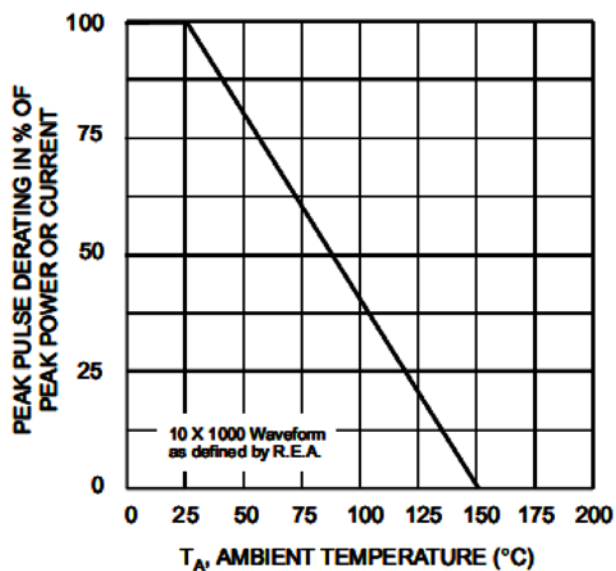


Fig. 1 Pulse Derating Curve

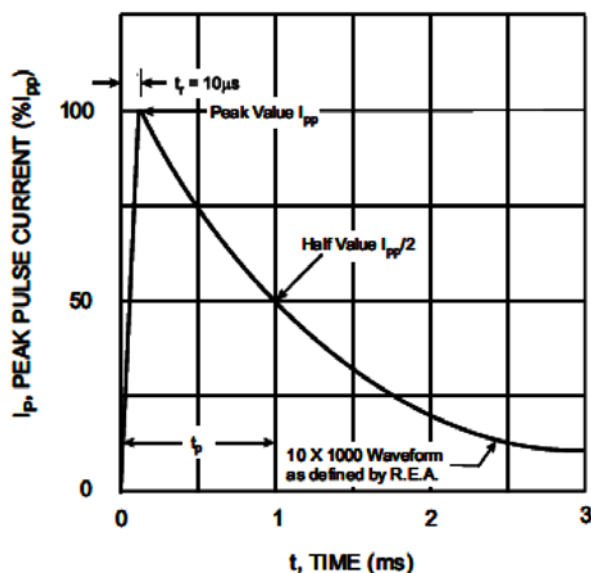


Fig. 2 Pulse Waveform

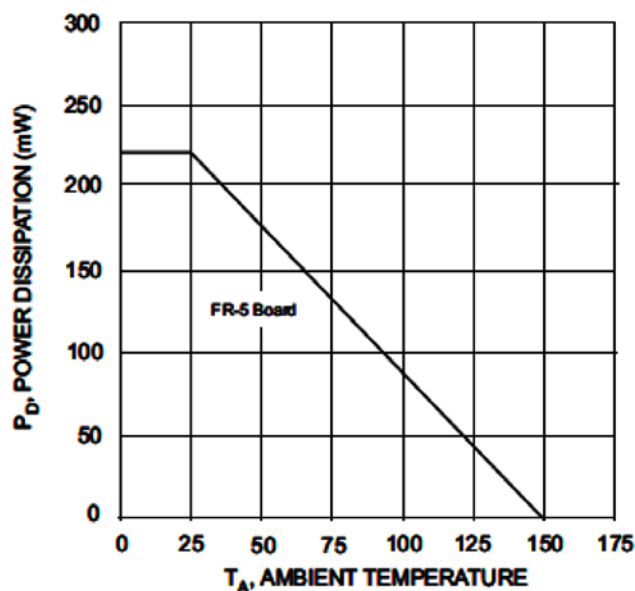
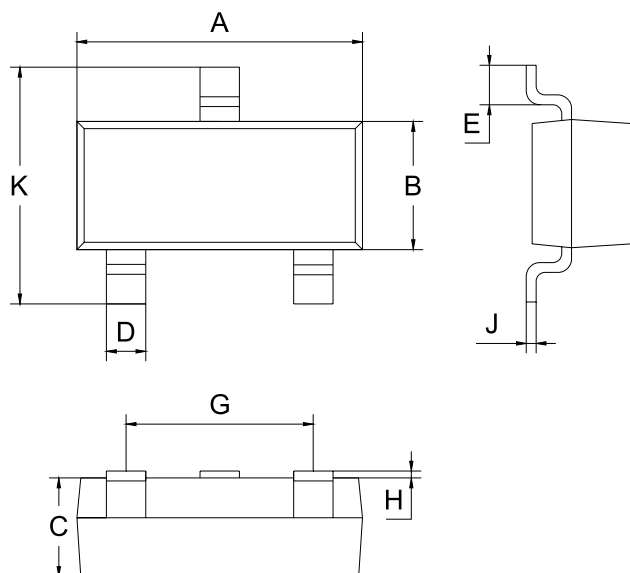


Fig. 5 Steady State Power Derating Curve

40W Peak Power Dual Surface Mount TVS

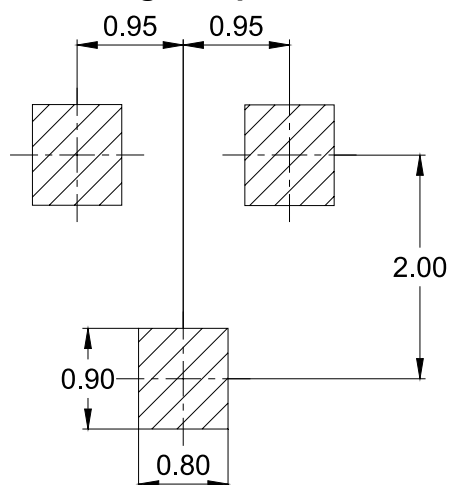


Plastic surface mounted package



SOT-23		
Dim	Min	Max
A	2.7	3.1
B	1.1	1.5
C	1 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.8	2
H	0.02	0.1
J	0.1 Typical	
K	2.2	2.6
All Dimensions in mm		

Soldering Footprint



Unit : mm

Package Information

Device	Package	Shipping
MMBZ18VAL	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
40W Peak Power Dual Surface Mount TVS	MMBZ18VAL-7-F

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