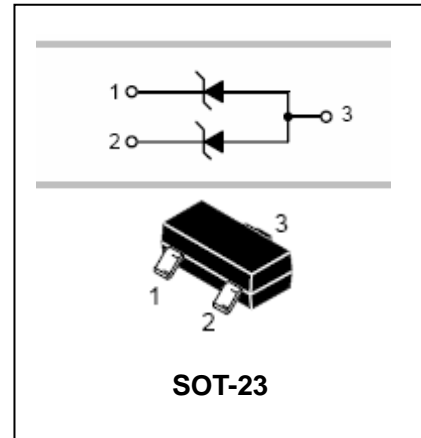


## 40W Peak Power Dual Surface Mount TVS

## MMBZ18VAL

### FEATURES

- Dual TVS in Common Anode Configuration.
- 40W Peak Power Dissipation Rating@1.0ms.
- 225mW Power Dissipation.
- Ideally Suited For Automatic Insertion.
- Low Leakage.



### APPLICATIONS

- Transient overvoltage protection capability.

### ORDERING INFORMATION

Type No.	Marking	Package Code
MMBZ18VAL	K9L	SOT-23

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward voltage @ $I_F=10\text{mA}$	$V_F$	0.9	V
Peak power dissipation @1.0ms(Note 1)	$P_{PK}$	40	W
Total power Dissipation	$P_D$	225	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	556	°C/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 to +150	°C



**40W Peak Power Dual Surface Mount TVS**

**MMBZ18VAL**

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

**40WATTS**

Device	V <sub>RWM</sub>	I <sub>R</sub> @ V <sub>RWM</sub>	Breakdown voltage				V <sub>CC</sub> @I <sub>PP</sub>		Typical Temperature Coefficient
			V <sub>BR</sub> (Note 4)(V)			@I <sub>T</sub>	V <sub>C</sub>	I <sub>PP</sub>	T <sub>C</sub>
	Volts	nA	Min	Nom	Max	mA	V	A	%/°C
MMBZ18VAL	14.5	50	17.10	18	18.90	1.0	25	1.6	+0.090

**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

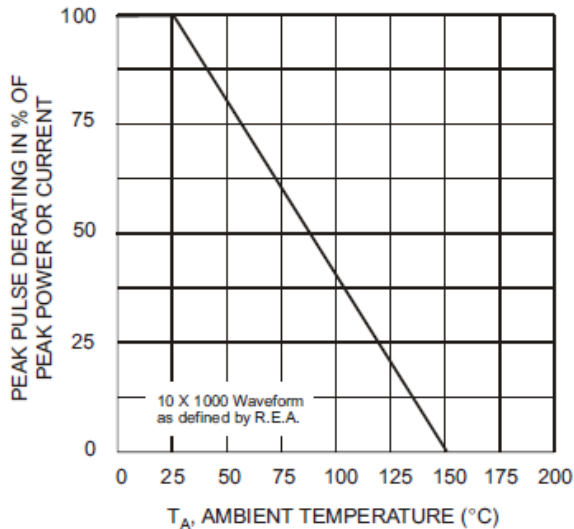


Fig. 1 Pulse Derating Curve

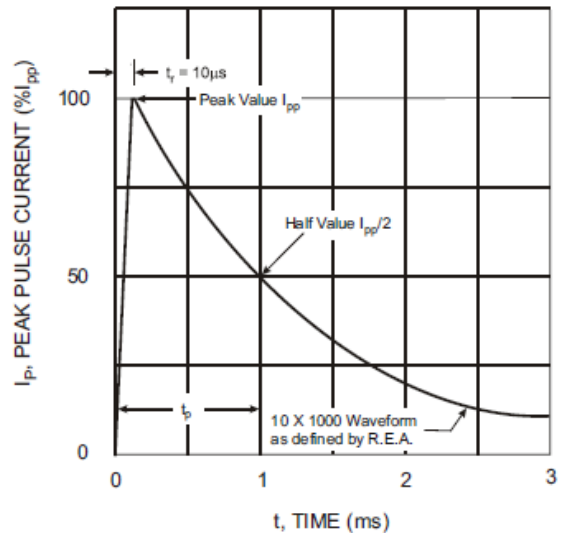


Fig. 2 Pulse Waveform

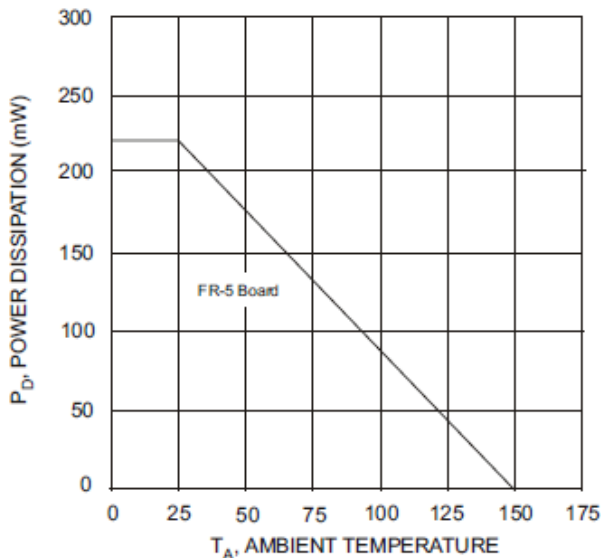


Fig. 5 Steady State Power Derating Curve



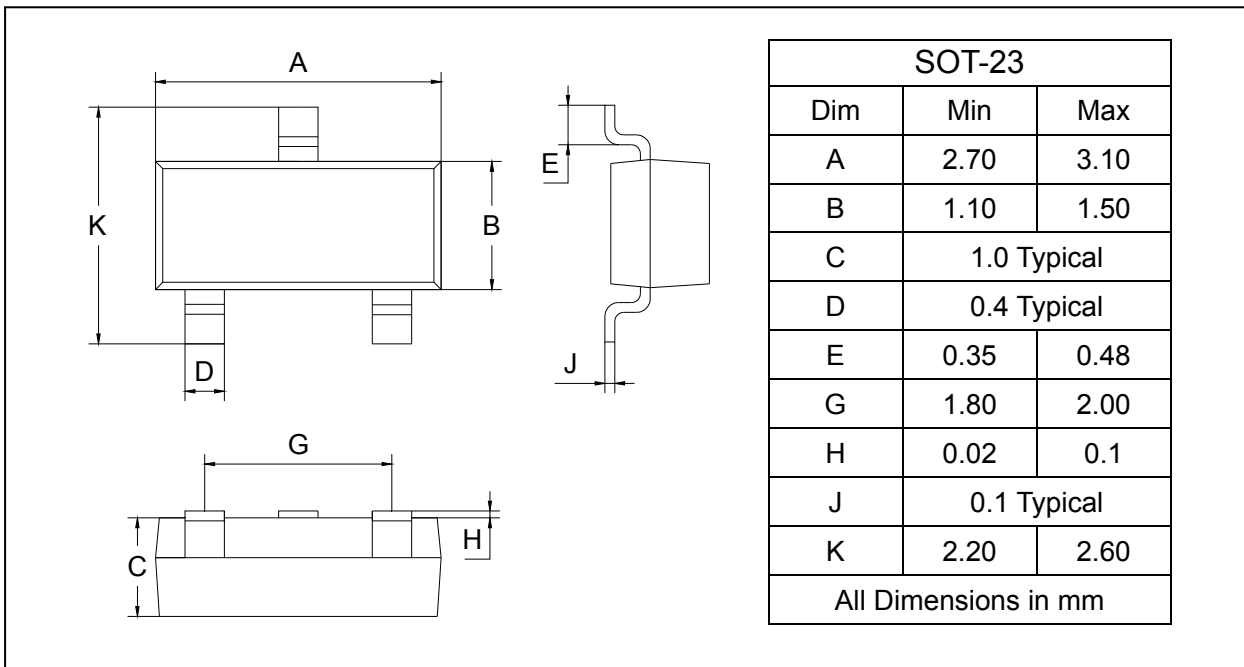
**40W Peak Power Dual Surface Mount TVS**

**MMBZ18VAL**

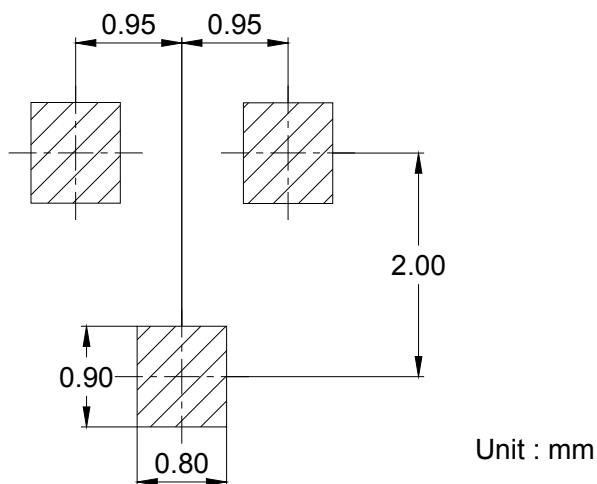
**PACKAGE OUTLINE**

Plastic surface mounted package

SOT-23



**SOLDERING FOOTPRINT**



**PACKAGE INFORMATION**

Device	Package	Shipping
MMBZ18VAL	SOT-23	3000/Tape&Reel