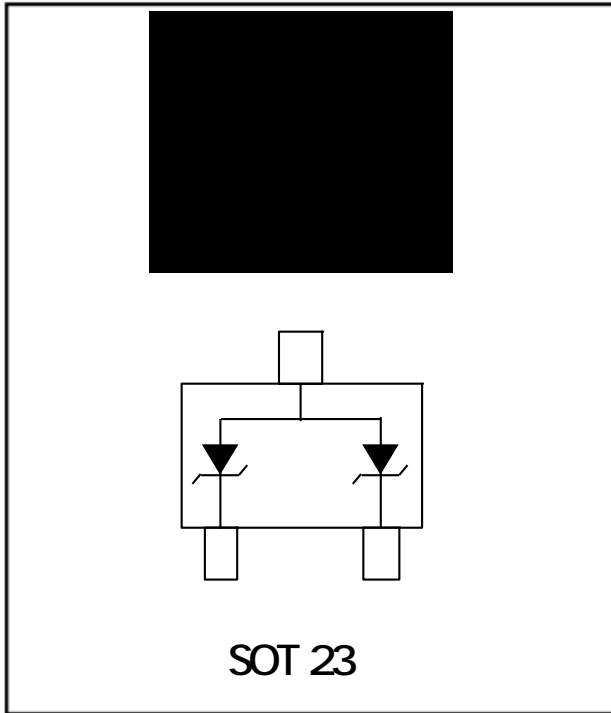


## Zener Diodes, 40 Watt Peak Power Dual Common Anode Zeners



### Features

- SOT-23 Package Allows Either Two Separate Unidirectional Configurations or a Single Bidirectional Configuration
- Peak Power-40W@1.0ms(Unidirectional)
- Transient protection for each line according to IEC61000-4-2(ESD):  $\pm 30\text{kV}$  contact,  $\pm 30\text{kV}$  air
- ESD Rating: Class 3B(  $16\text{KV}$ )per the HBM
- Maximum Clamping Voltage@Peak Pulse Current
- RoHS Compliant
- Part no. with suffix "Q" means AEC-Q101 qualified

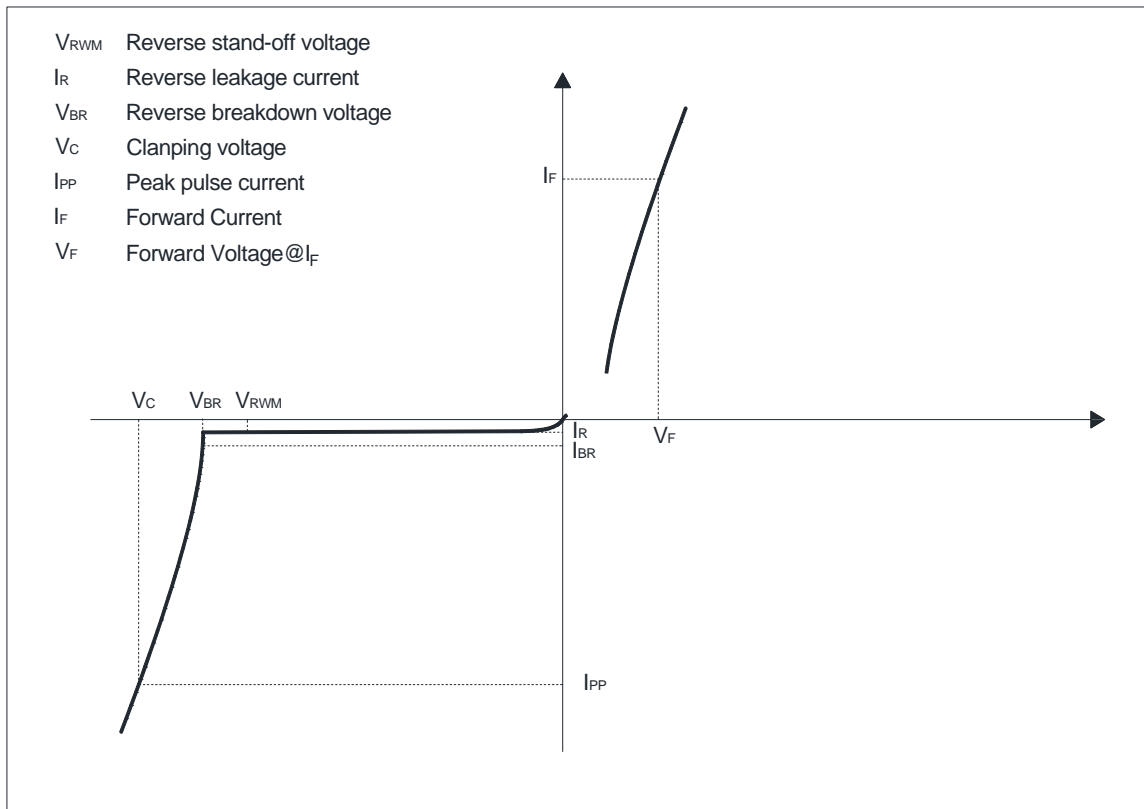
### Applications

- Test Equipment/Instrumentation
- Notebooks / Desktops / Servers
- Computer Peripherals
- Automotive applications

### Mechanical Data

- Package: SOT-23
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020

### Definitions of electrical characteristics

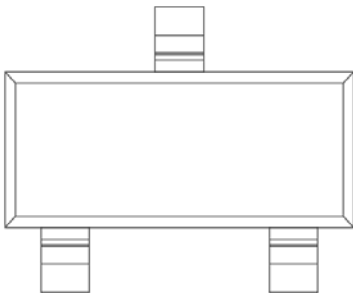




# MMBZ20VAQ

## Maximum Ratings

PARAMETER	SYMBOL	LIMITS	UNIT
Peak pulse power ( $t_p = 10/1000\mu s$ )	$P_{pk}$	40	W
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	$\pm 30$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 30$	
Power Dissipation	$P_D$	225	mW
Thermal Resistance Junction to Ambient	$R_{thJA}$	556	$^{\circ}C/W$
Junction temperature	$T_J$	-55~150	
Storage temperature	T		





## Characteristics (Typical)

Fig.1:  $P_D-T_A$

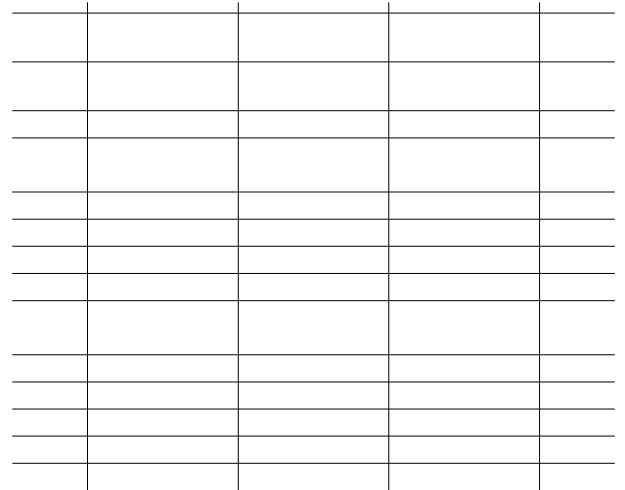
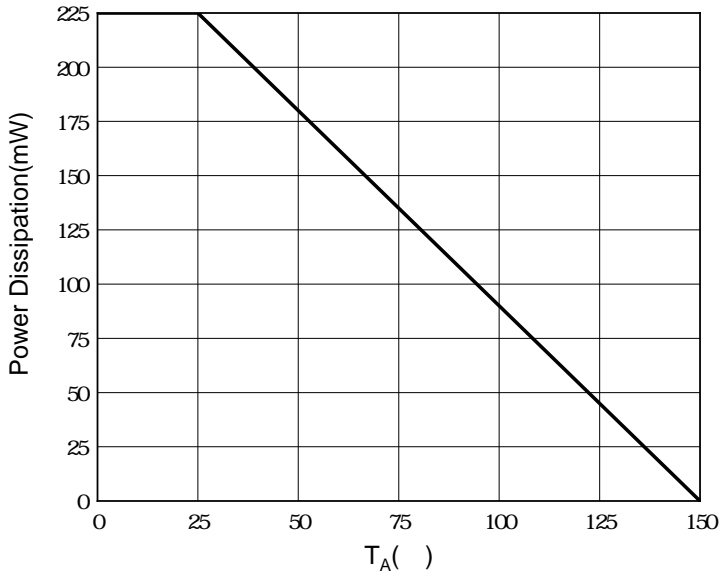
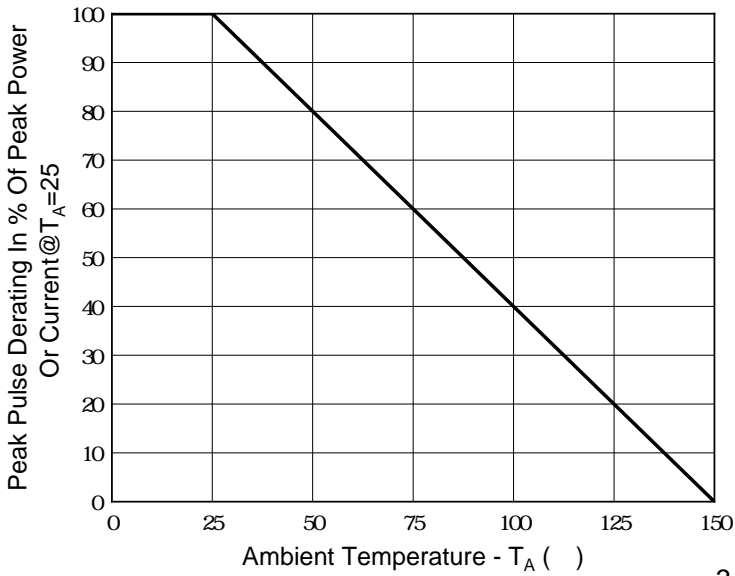


Fig.5: Power Derating Curve



**MMBZ20VAQ**

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## MMBZ20VAQ

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### Disclaimer

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