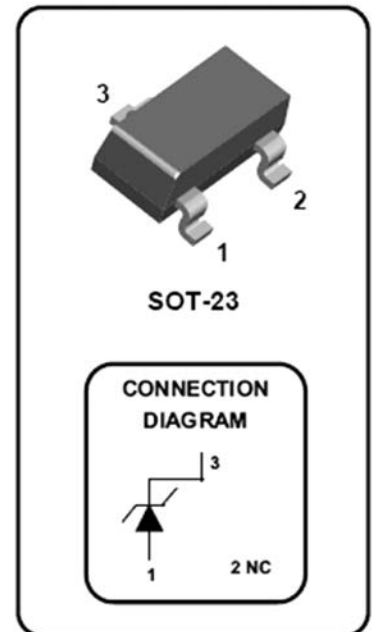


Surface Mount Zener Diode



Features:

- Planar Die Construction
- 350mW Power Dissipation
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes

Application:

350mW Surface mount zener diode

Maximum Rating @ Ta = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward voltage @ $I_F = 10\text{mA}$	V_F	0.9	V
Power dissipation	P_D	350	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	357	°C/W
Operating and storage temperature range	T_j, T_{stg}	-65 to +150	°C

Note : Valid provided that device terminals are kept at ambient temperature.
Tested with pulses, $T_p \leq 1\text{ms}$.

Electrical Characteristics @ Ta = 25°C unless otherwise specified

Type Number	Marking Code	Zener Voltage Range				Maximum Zener Impedance		Maximum Reverse Leakage Current	
		$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK} = 0.25\text{mA}$	I_R	@ V_R
		Nom(V)	Min(V)	Max(V)	(mA)	(Ω)		(μA)	(V)
MMBZ5231B	KE1	5.1	4.85	5.36	20	17	1,600	5	2



Surface Mount Zener Diode



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

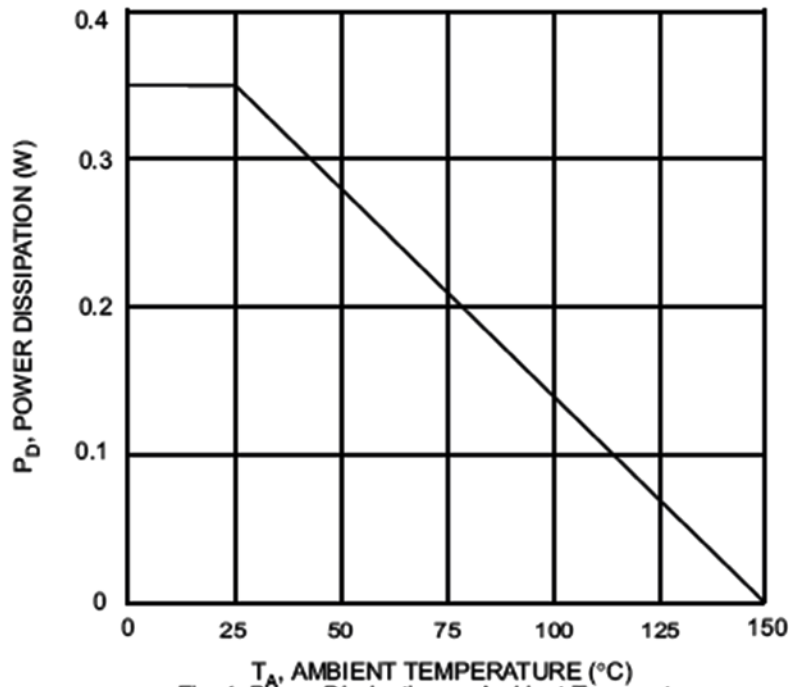
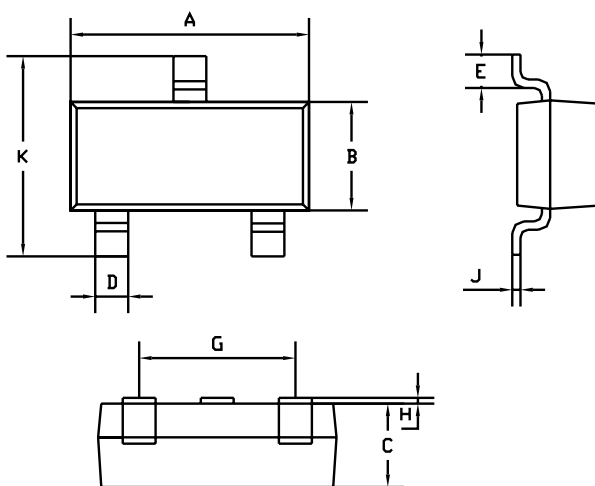


Fig. 1 Power Dissipation vs Ambient Temperature

Package Outline

Plastic surface mounted package



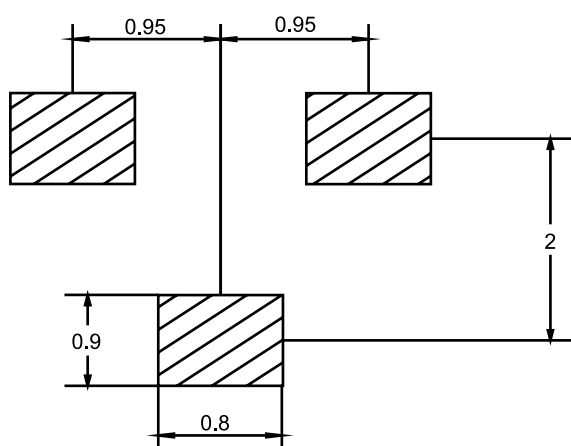
SOT-23		
Dim	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1 Typical	
K	2.35	2.45
All Dimensions in mm		



Surface Mount Zener Diode



Soldering Footprint



Dimensions : Millimetres

Package Information

Device	Package	Shipping
MMBZ5231B-7-F	SOT-23	3,000/Tape & Reel

Part Number Table

Description	Part Number
350mW Surface Mount Zener Diode	MMBZ5231B-7-F

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