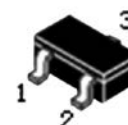
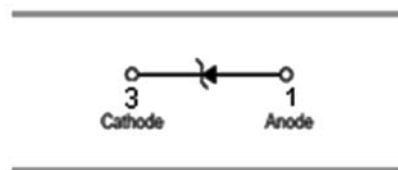


Surface Mount Zener Diode



SOT-323

Features:

- Planar Die Construction
- 200mW Power Dissipation
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes

Application:

200mW 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	200	mW
Operating and storage temperature range	T_j, T_{stg}	-65 to +150	°C

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)
MMBZ5242BW	KH2	12	11.4	12.6	20	30	600	1	9.1

Surface Mount Zener Diode



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

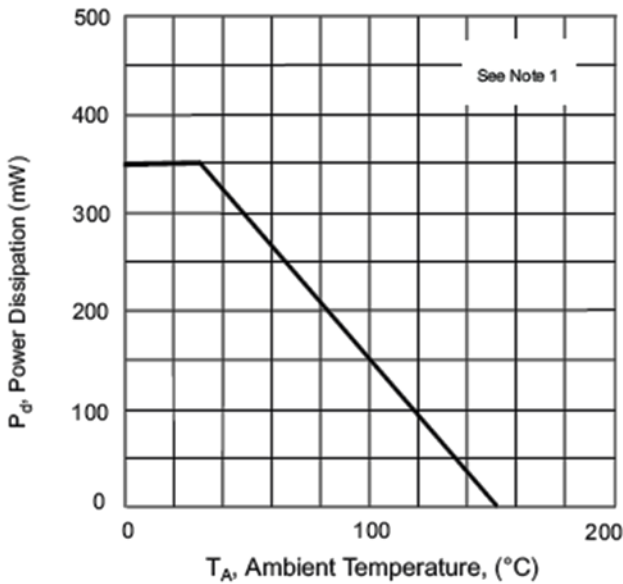


Fig. 1 Power Derating Curve

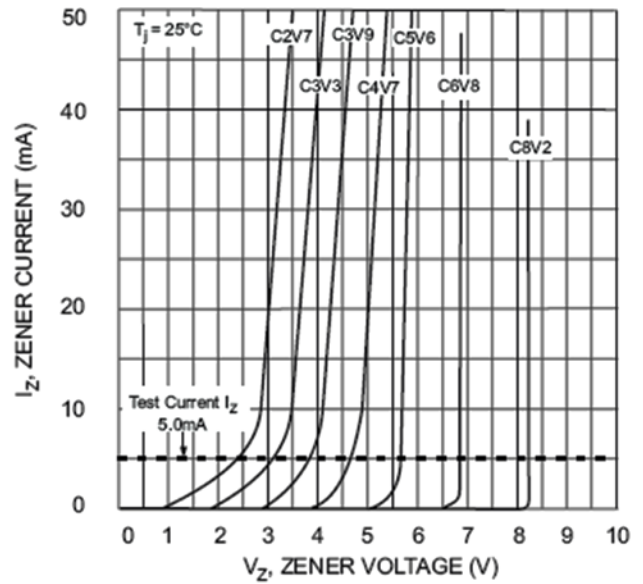


Fig. 2 Zener Breakdown Characteristics

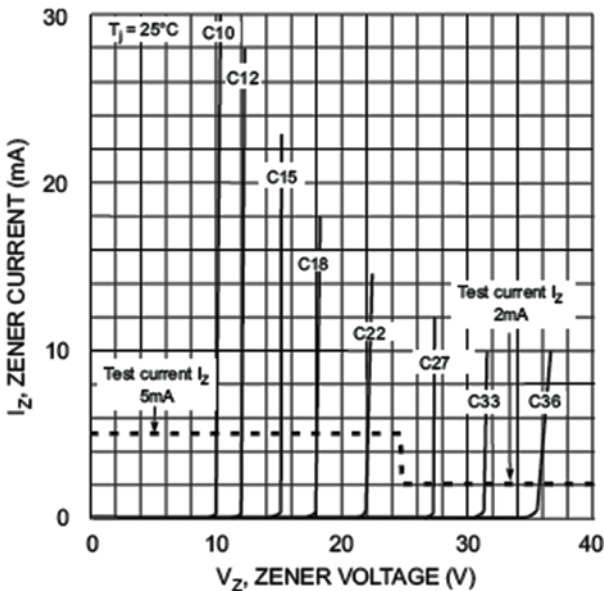


Fig. 3 Zener Breakdown Characteristics

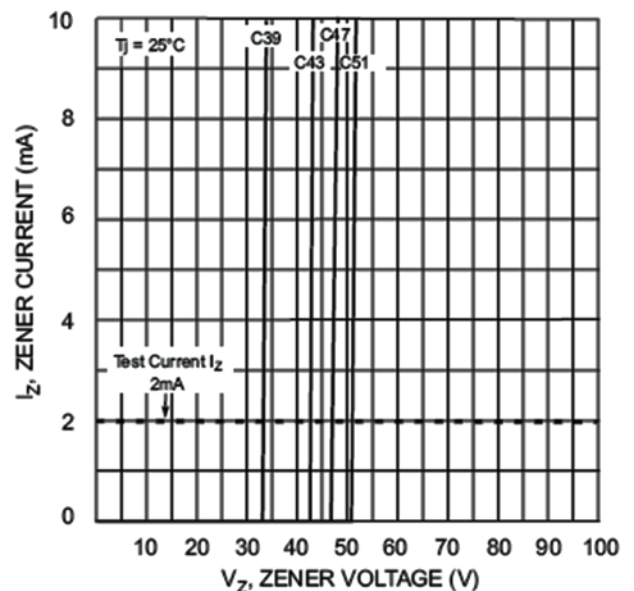


Fig. 4 Zener Breakdown Characteristics

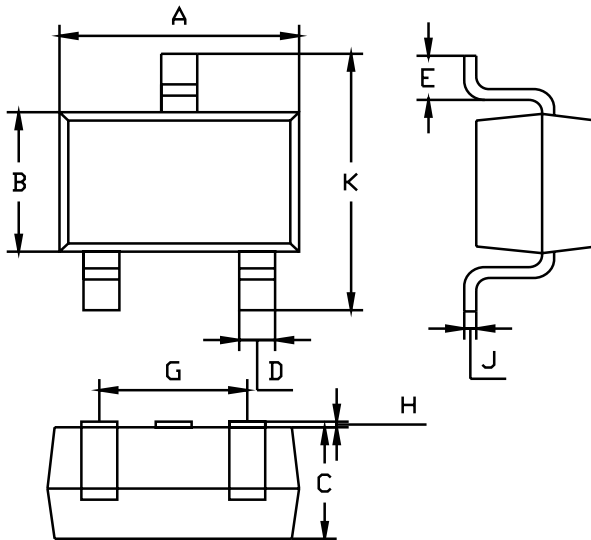


Surface Mount Zener Diode



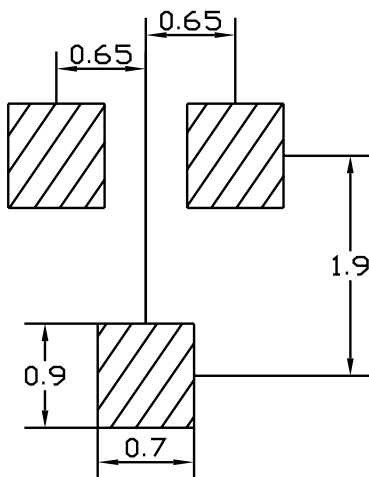
Package Outline

Plastic surface mounted package



SOT-323		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1 Typical	
D	0.15	0.35
E	0.25	0.4
G	1.2	1.4
H	0.02	0.1
J	0.1 Typical	
K	2.1	2.3
All Dimensions in mm		

Soldering Footprint



Dimensions : Millimetres

Package Information

Device	Package	Shipping
MMBZ5242BW-7-F	SOT-323	3,000/Tape & Reel

Part Number Table

Description	Part Number
200mW Surface Mount Zener Diode	MMBZ5242BW-7-F

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