

Surface Mount Zener Diode



SOD-323

Features:

- Planar Die Construction
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes

Applications:

- Zener diode
- Ultra-small surface mount package

Maximum Rating @ $T_A = 25^{\circ}\text{C}$ 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
Thermal resistance, junction to ambient air	$R_{\theta JA}$	625	$^{\circ}\text{C/W}$
Junction temperature	T_J	150	$^{\circ}\text{C}$
Storage temperature range	T_{stg}	-65 to +150	$^{\circ}\text{C}$

Note Valid provided that device terminals are kept at ambient temperature.
Short duration test pulse used in minimize self-heating effect.
 $f = 1\text{kHz}$.

Surface Mount Zener Diode

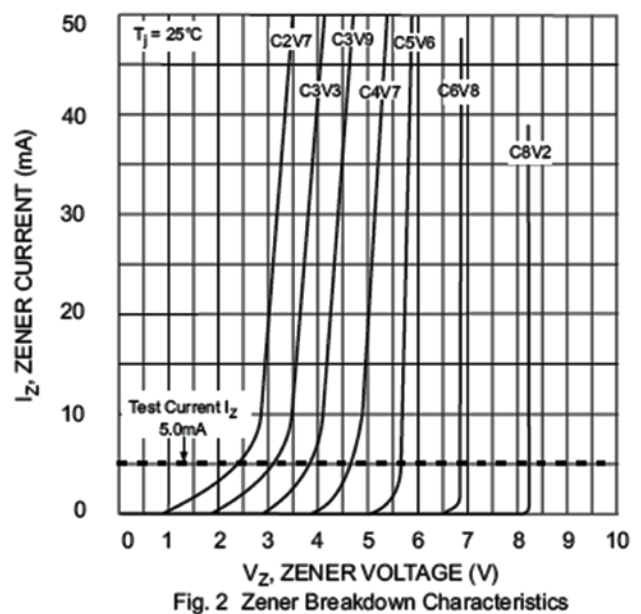
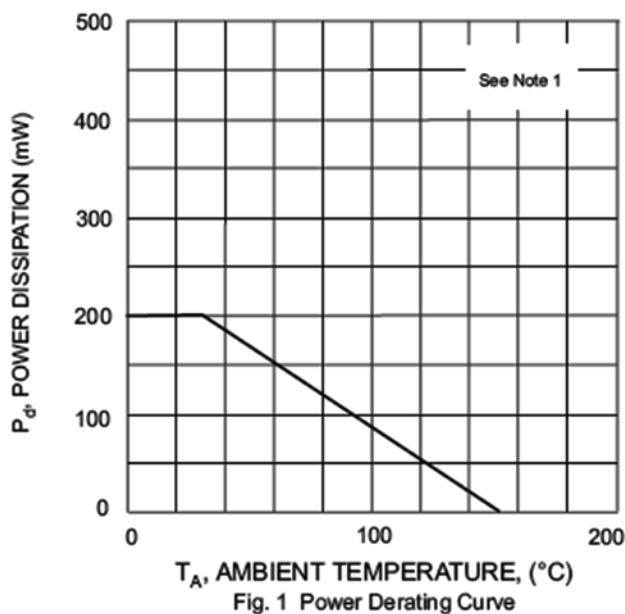


Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

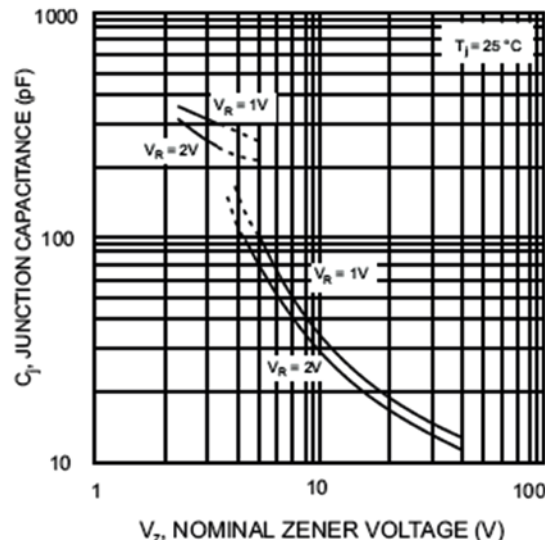
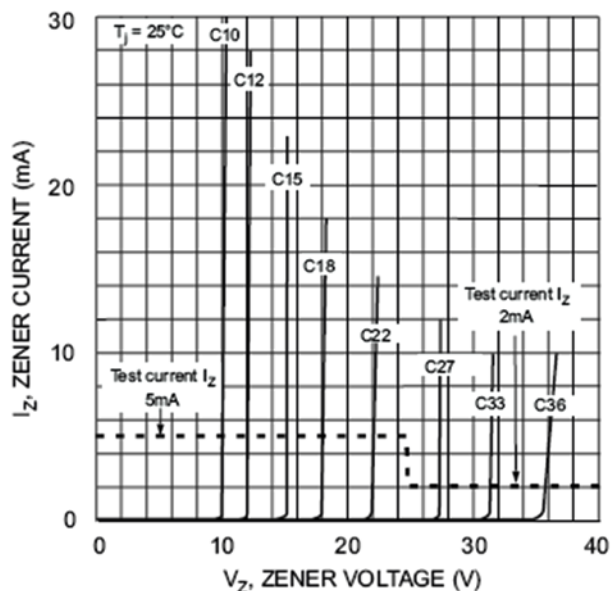
Type Number	Marking Code	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current		Typical Temperature Coefficient @ I_{ZTC} mV/ $^\circ\text{C}$	
		$V_z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	I_R	@ V_R		
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	μA	V	Min	Max
BZT52C4V7S	W7	4.7	4.4	5	5	80	500	1	3	2	-3.5	0.2

Note Valid provided that device terminals are kept at ambient temperature.
Tested with pulses, period = 5ms, pulse width = 300 μs .
 $f = 1\text{kHz}$.

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

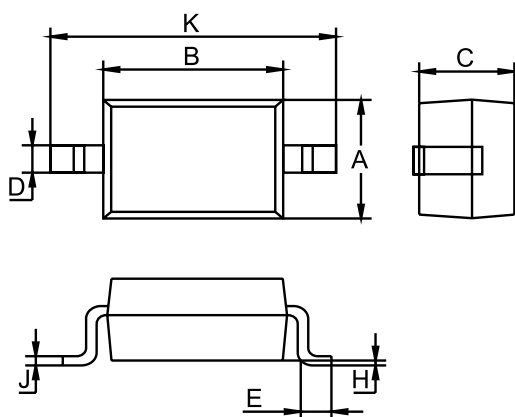


Surface Mount Zener Diode



Package Outline

Plastic surface mounted package

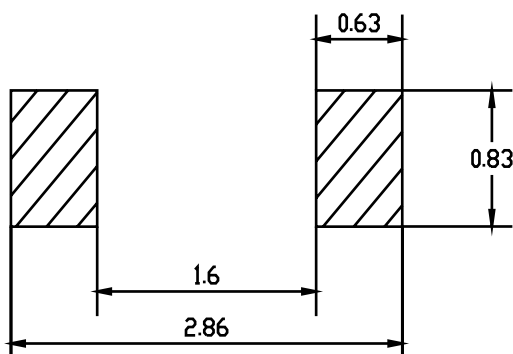


SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

Surface Mount Zener Diode



Soldering Footprint



Dimensions : Millimetres

Package Information

Device	Package	Shipping
BZT52C4V7S-7-F	SOD-323	3,000/Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Zener Diode	BZT52C4V7S-7-F

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