

Surface Mount Zener Diode

multicomp^{PRO}



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°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward voltage @ I _F = 10mA	V _F	0.9	V
Power dissipation	P _D	200	mW
Thermal resistance, junction to ambient air	R _{θjA}	625	°C/W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-65 to +150	°C

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

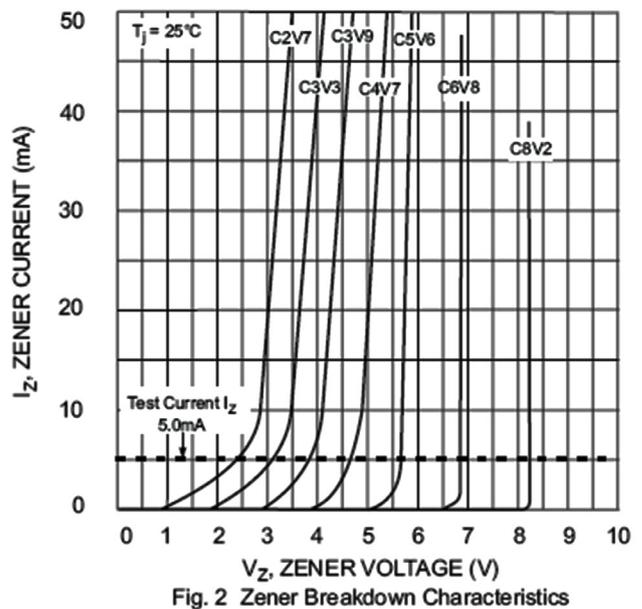
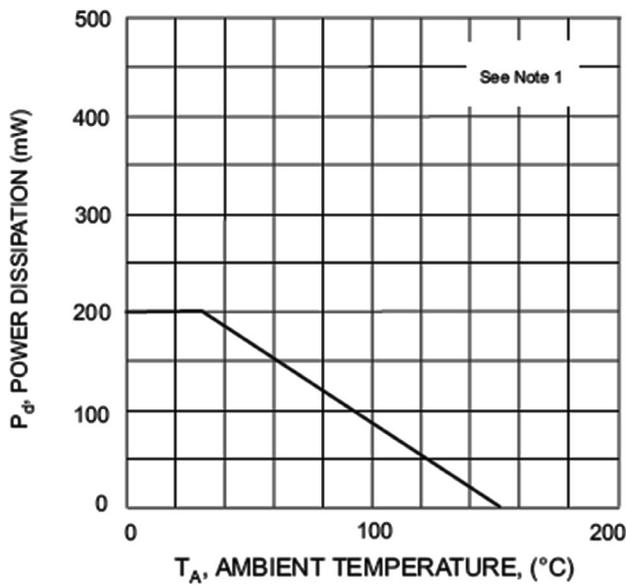
Surface Mount Zener Diode

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	Min	Max
		Nom(V)	Min(V)	Max(V)	mA	Ω	mA	μA	V			
BZT52C36S	WS	36	34	38	2	90	350	0.5	0.1	25.2	30.4	37.4

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



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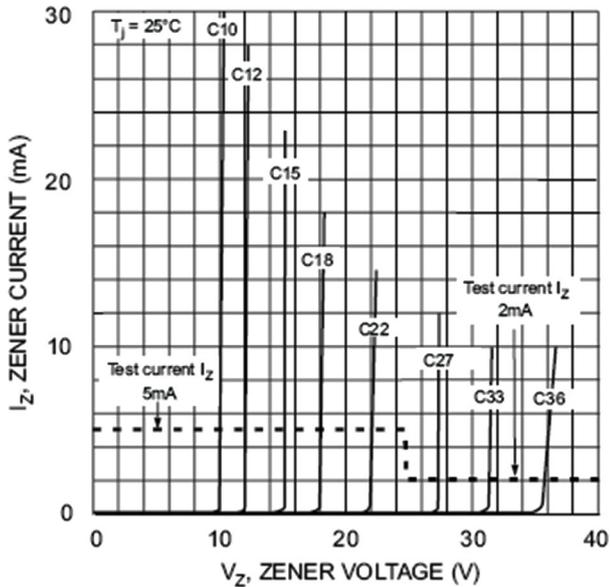


Fig. 3 Zener Breakdown Characteristics

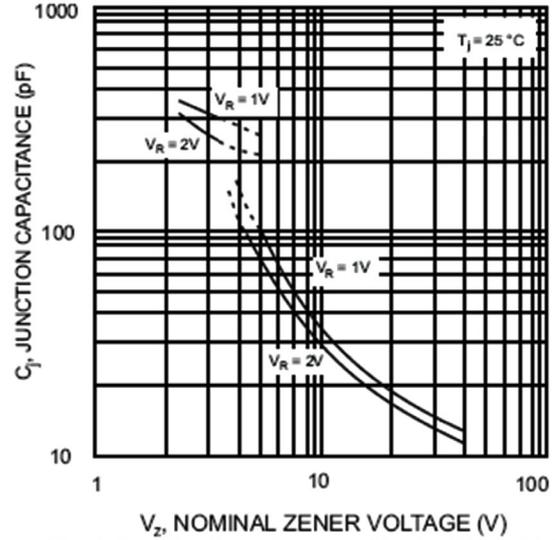
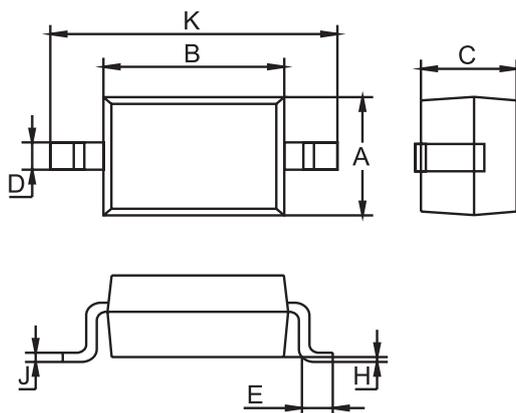


Fig. 4 Junction Capacitance vs Nominal Zener Voltage

Package Outline

Plastic surface mounted package

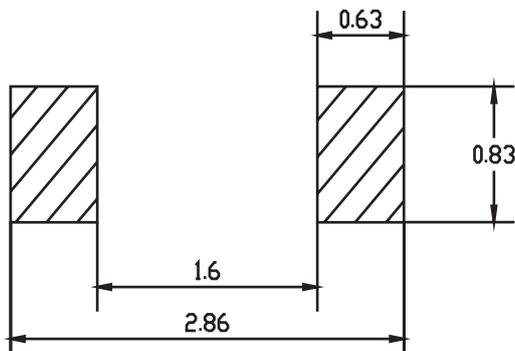


SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

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Soldering Footprint



Package Information

Device	Package	Shipping
BZT52C36S-7-F	SOD-323	3,000/Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Zener Diode	BZT52C36S-7-F

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