

200mW Surface Mount Zener Diode



Features:

- Planar Die Construction
- 200mw Power Dissipation
- Zener Voltages From 2.4V to 39V
- Also available in Lead Free Version

Applications:

200mW Surface mount zener diode

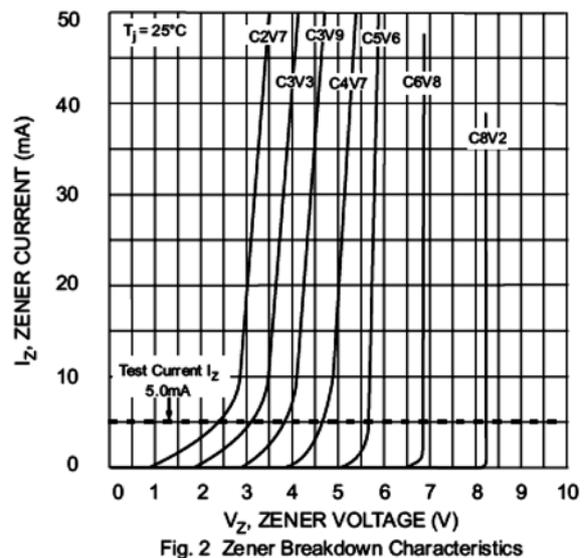
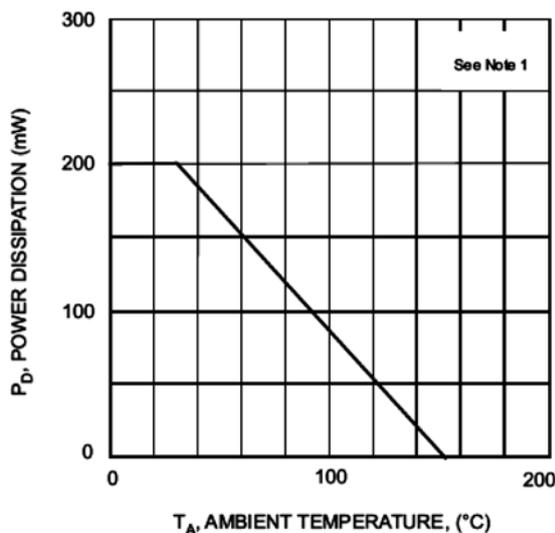
Max. Rating @ $T_A = 25^\circ\text{C}$ unless otherwise specified

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	$^\circ\text{C/W}$
Operating and storage temperature range	T_J, T_{STG}	-65 to +150	$^\circ\text{C}$

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

Zener Voltage Range			Max. Zener Impedance				Max. Reverse Current		Typical Temperature Coefficient @ I_{ZT} mV/ $^\circ\text{C}$	
V_Z @ I_{ZT}			I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R	V_R	Min.	Max.
Nom. (V)	Min.(V)	Max. (V)	mA	Ω	Ω	mA	μA	V		
20	18.8	21.2	5	55	225	1	0.1	14	14.4	18

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



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

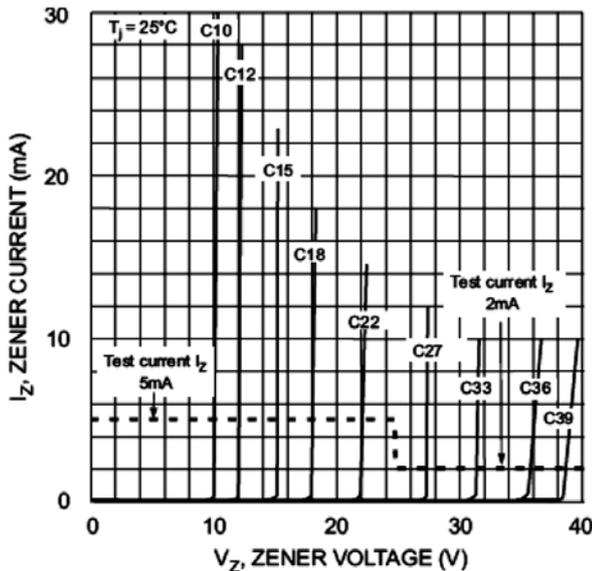


Fig. 3, Zener Breakdown Characteristics

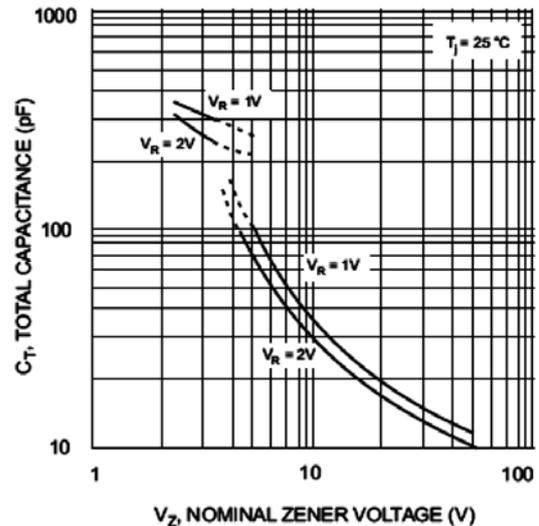
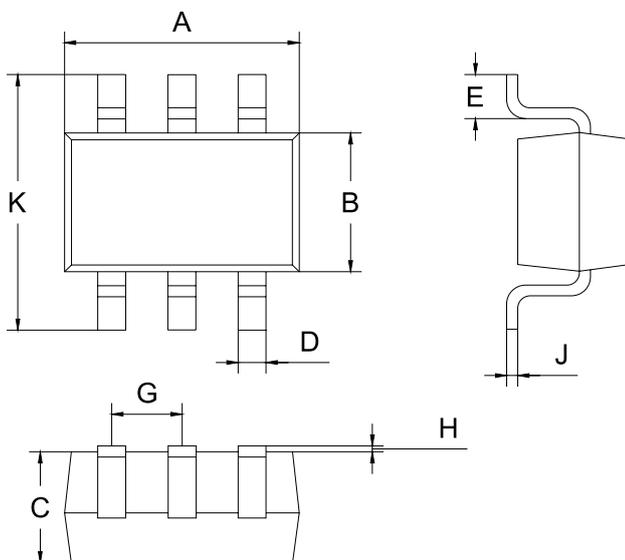


Fig. 4, Total Capacitance vs Nominal Zener Voltage

Plastic surface mounted package



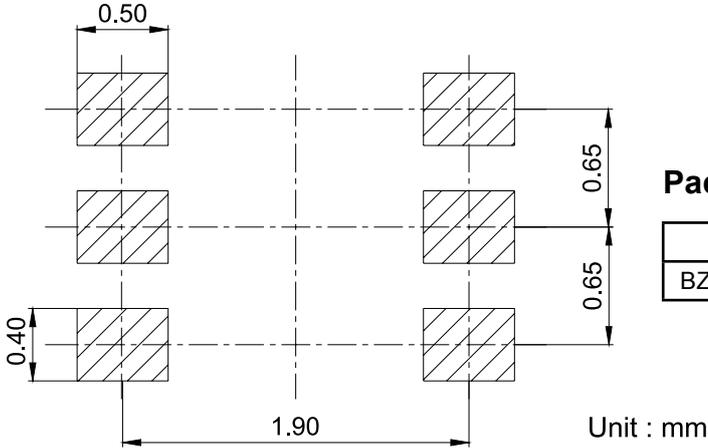
SOT-363		
Dim	Min	Max
A	2	2.2
B	1.15	1.35
C	0.95 Typical	
D	0.25 Typical	
E	0.25	0.4
G	0.6	0.7
H	0.02	0.1
J	0.1 Typical	
K	2.2	2.4
All Dimensions in mm		



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Soldering Footprint



Package Information

Device	Package	Shipping
BZX84C20S-7-F	SOT-363	3,000 / Tape & Reel

Part Number Table

Description	Part Number
200mW Surface Mount Zener Diode	BZX84C20S-7-F

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