

350mW

Surface Mount Zener Diode

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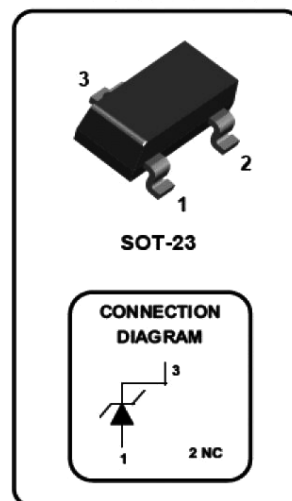
Features:

- Planar Die Construction
- 350mW Power Dissipation
- Zener Voltages from 2.4V to 51V
- Ideally Suited For Automated Assembly Processes

Applications:

350mW Surface mount zener diode

Tolerance: C = 5%



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

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

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

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

Marking Code	Zener Voltage Range				Max. Zener Impedance			Max. Reverse Current		Typical Temperature Coefficient@ IZTC mV/°C	
	Vz @ IZT			IZT	ZZT@IZT	ZZK@IZK		IR	VR		
	Nom(V)	Min(V)	Max(V)	mA	Ω		mA	μA	V	Min.	Max.
Y17	51	48	54	2	180	400	0.5	0.1	35.7	10	12

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

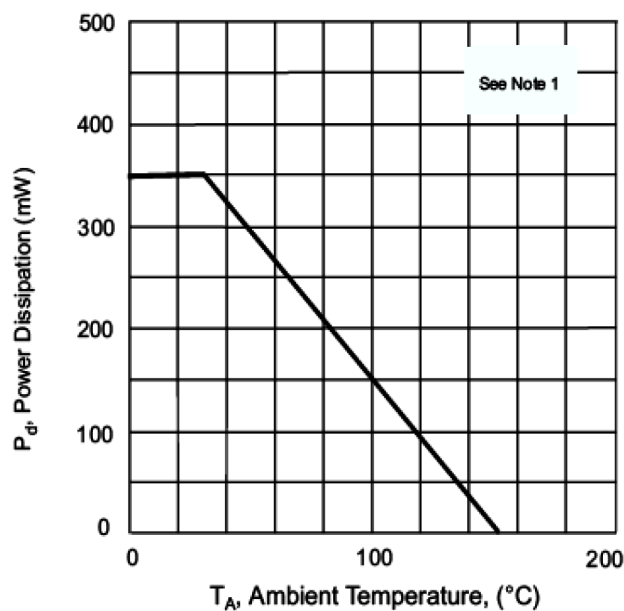


Fig. 1 Power Derating Curve

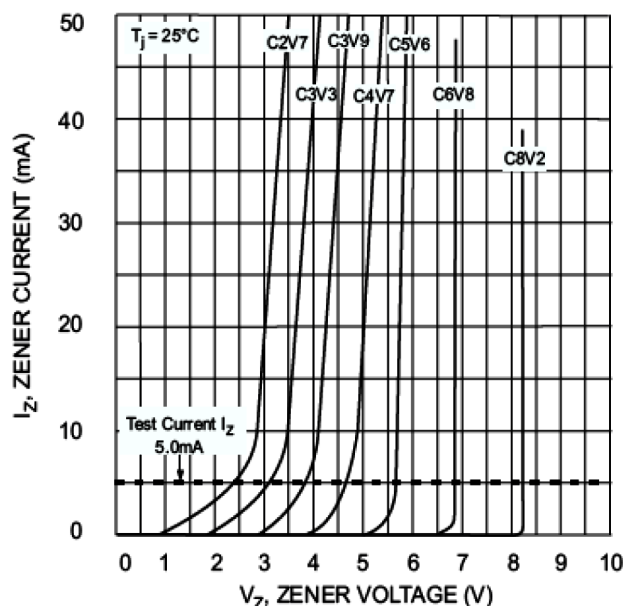


Fig. 2 Zener Breakdown Characteristics

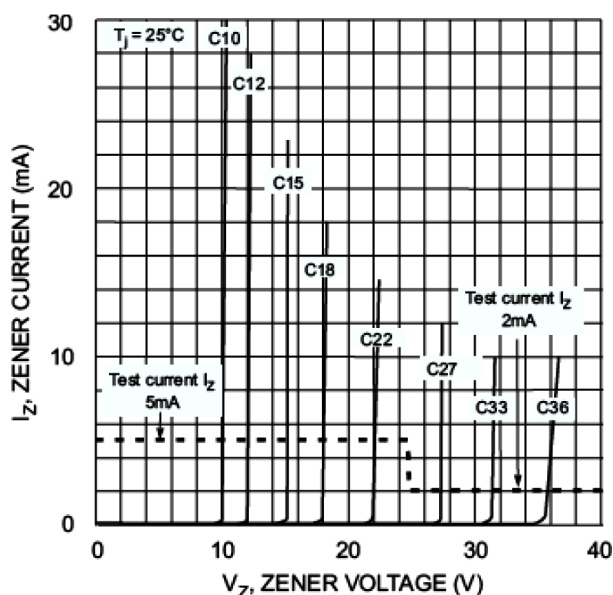


Fig. 3 Zener Breakdown Characteristics

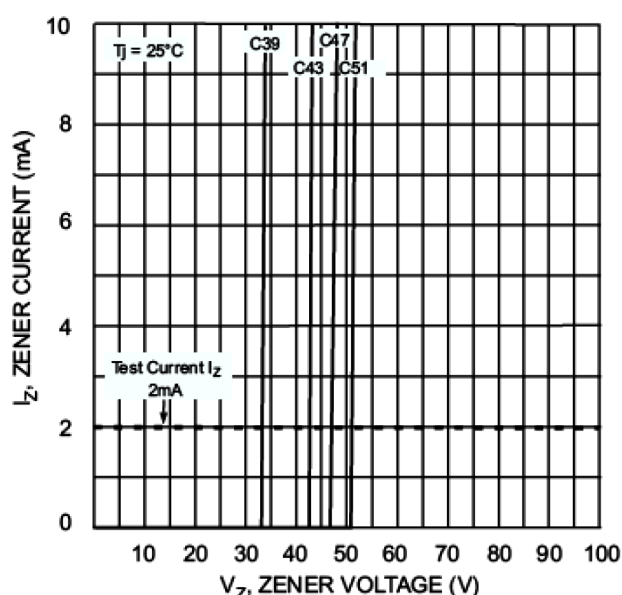


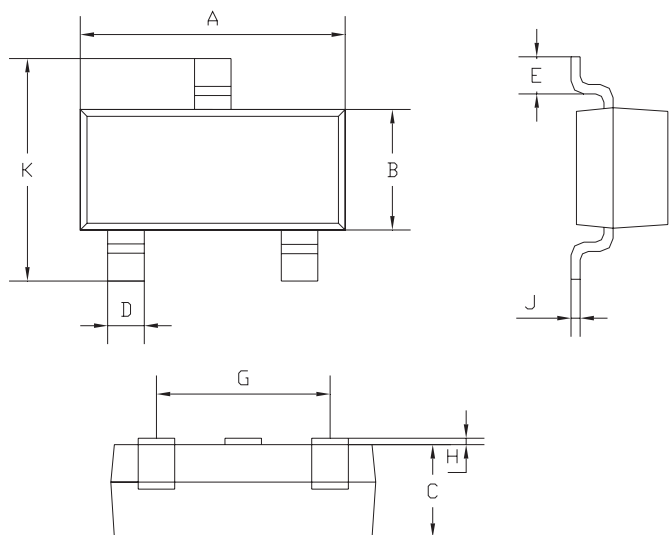
Fig. 4 Zener Breakdown Characteristics

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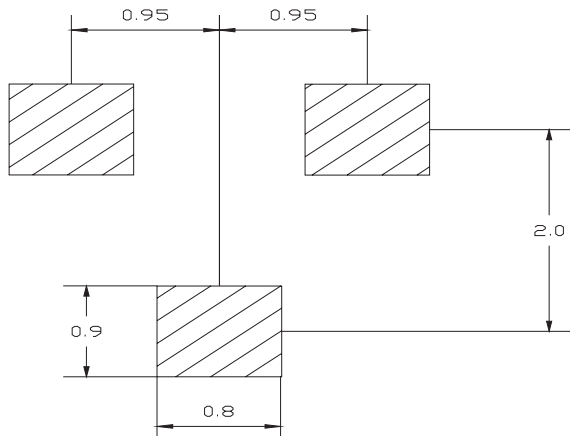
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Plastic surface mounted package



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		

Soldering Footprint



Unit : mm

Package Information

Device	Package	Shipping
BZX84C51-7-F	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
350mW Surface Mount Zener Diode	BZX84C51-7-F

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