

350mW Surface Mount Zener Diode

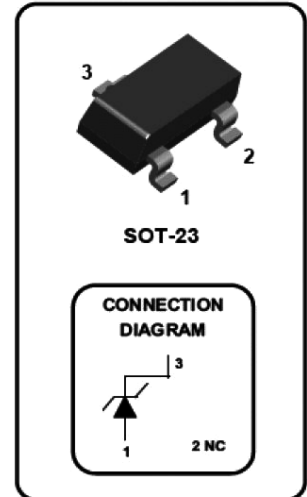
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Features:

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

Tolerance: C = 5%



Applications:

350mW Surface mount zener diode

Max. Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Forward voltage @ IF = 10mA	VF	0.9	V
Power dissipation	PD	350	mW
Thermal resistance junction to ambient air	RθJA	357	°C/W
Operating and storage temperature range	Tj, TSTG	-65 to +150	°C

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

Electrical Characteristics @ TA = 25°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	Min.	Max.	
	Nom(V)	Min(V)	Max(V)		mA	Ω	mA	µA			V
Y5	16	15.3	17.1	5	40	200	1	0.1	11.2	10.4	14

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

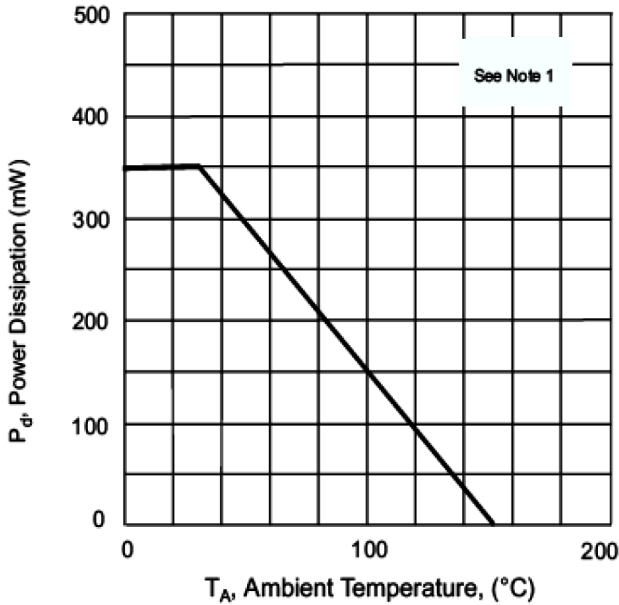


Fig. 1 Power Derating Curve

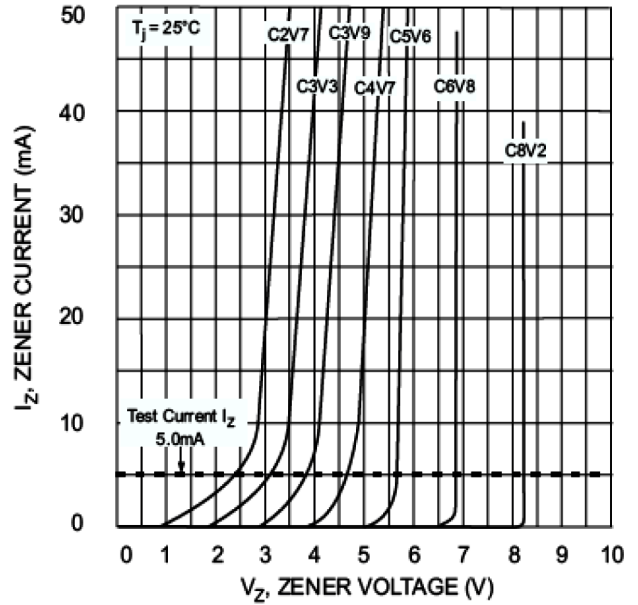


Fig. 2 Zener Breakdown Characteristics

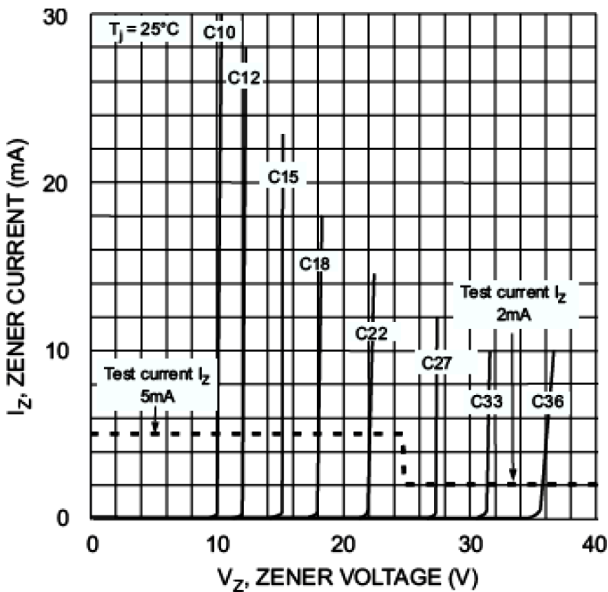


Fig. 3 Zener Breakdown Characteristics

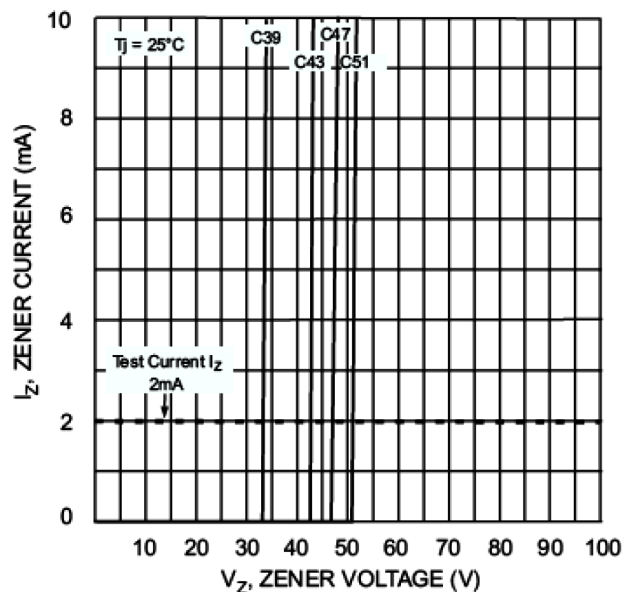
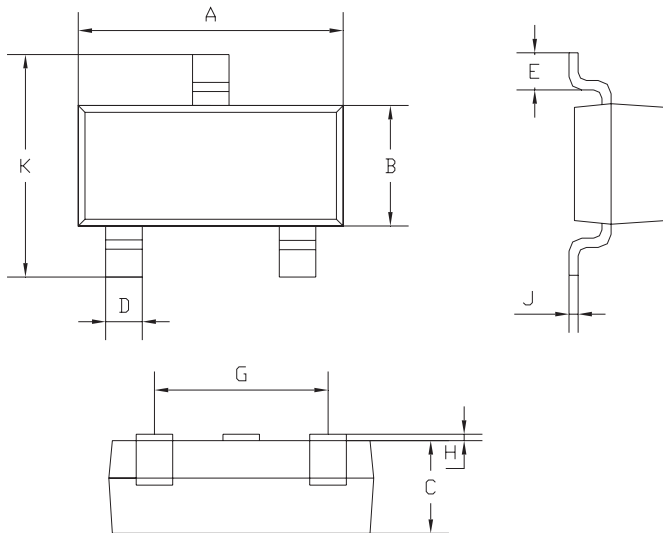


Fig. 4 Zener Breakdown Characteristics

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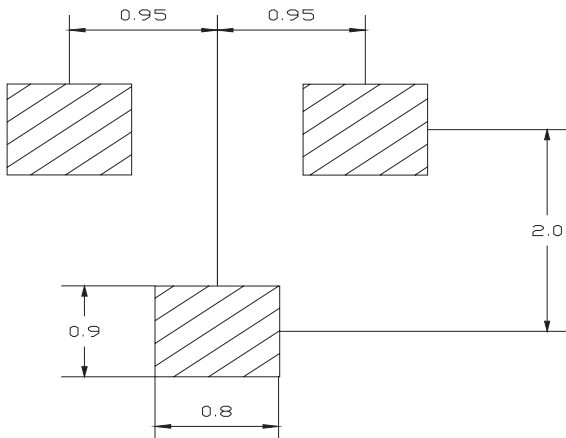
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Plastic surface mounted package



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
BZX84C16-7-F	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
350mW Surface Mount Zener Diode	BZX84C16-7-F

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