







SOD-123

Features:

- · Planar Die Construction
- · 500mW Power Dissipation On Ceramic PCB
- · General Purpose, Medium Current
- Ideally Suited For Automated Assembly Processes

Applications:

- · Zener diode
- · Ultra-small surface mount package

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Characteristic	Symbol	Value	Unit
Forward voltage at I _F =10mA	VF	0.9	V
Power dissipation	Po	500	mW
Thermal resistance, junction to ambient air	RθjA	305	°C/W
Junction and storage temperature range	Tj, Tstg	-65 to +150	°C

Notes:

Device mounted on ceramic PCB 7.6mm × 9.4mm × 0.87mm with pad areas 25mm².

Short duration test pulse used to minimize self-heating effect.

When provided, otherwise, parts are provided with date code only, and type number identifications appears on reel only. f = 1kHz.

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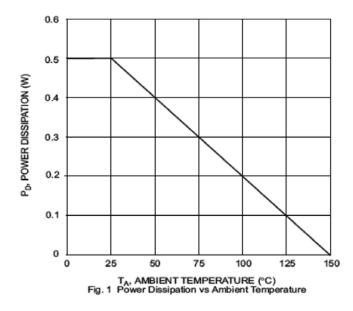
Electrical Characteristics:

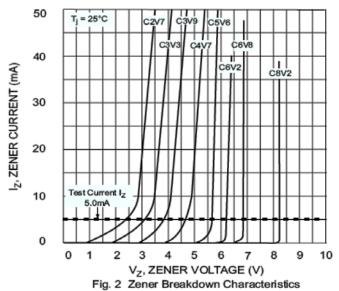
Ratings at 25°C unless otherwise specified.

Part Number	Marking Code	Zener Voltage Range				Max. Zener Impedance			Max. Reverse Current		Temperature Coefficient of zener voltage		Test Current Iztc
		Vz@lzт		Izт	Z zт@ I zт	Z zк @l zк	Izĸ	lĸ	@V R	— @ Izτc mV/°C			
		Nom.(V)	Min.(V)	Max.(V)	mA	Ω m		mA	μΑ	٧	Min.	Max.	mA
BZT52C6 V8-7-F	WB	6.8	6.4	7.2	5	15	80	1	2	4	1.2	4.5	5

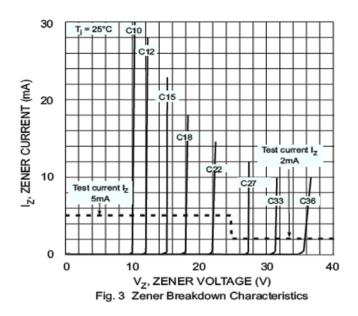
Typical Characteristics:

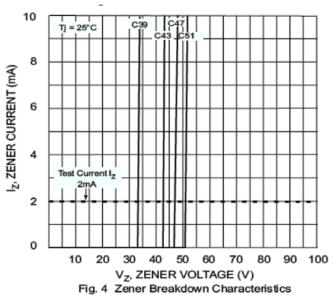
T_A = 25°C unless otherwise specified.











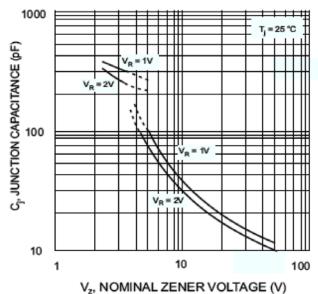


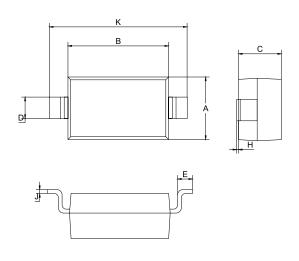
Fig. 5 Junction Capacitance vs Nominal Zener Voltage





Package Outline:

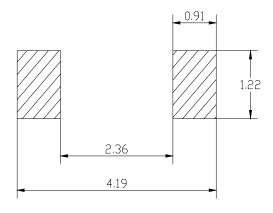
Plastic surface mounted package



SOD-123					
Dim.	Min.	Max.			
А	1.4	1.8			
В	2.55	2.85			
С	1.15 Typ.				
D	0.5	0.6			
E	0.3	0.4			
Н	0.02	0.1			
J	0.1 Typ.				
К	3.55	3.85			

Dimensions: Millimetres

Soldering Footprint:



Dimensions : Millimetres

Package Information:

Device	Package	Shipping
BZT52C6V8-7-F	SOD-123	3,000 / Tape & Reel

Part Number Table

Description	Part Number			
Surface Mount Zener Diode	BZT52C6V8-7-F			

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