



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⊧=10mA	VF	0.9	V
Power dissipation	Pd	500	mW
Thermal resistance, junction to ambient air	Reja	305	°C/W
Junction and storage temperature range	Tj, Tstg	-65 to +150	°C

#### Note :

Device mounted on ceramic PCB 7.6mm × 9.4mm × 0.87mm with pad areas 25mm<sup>2</sup>.

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 = 1 kHz.



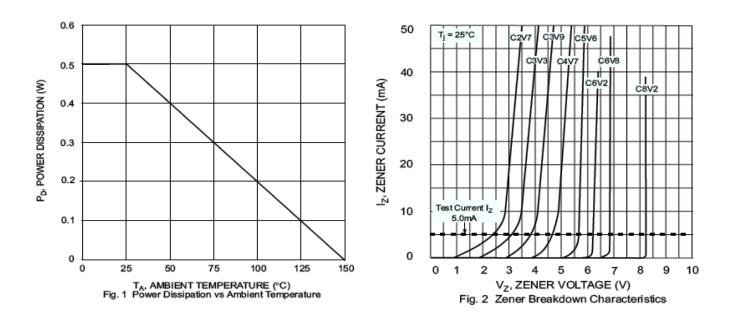
# **Electrical Characteristics:**

Ratings at 25°C unless otherwise specified.

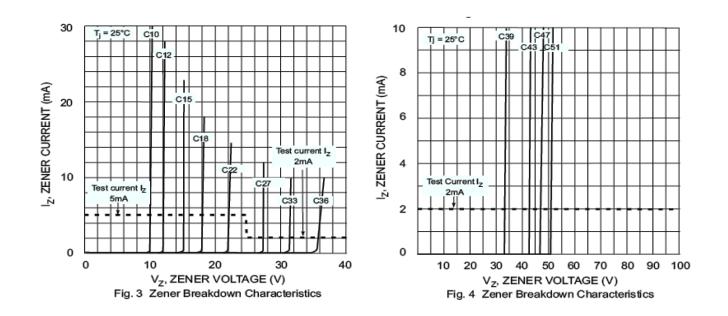
Part Number	Marking Code	Zener Voltage Range				Max. Zener Impedance			Max. Reverse Current		Temperature Coefficient of zener voltage		Test Current Іzтс
		Vz@Izt		lzт	Zzt@Izt	Zzk@lzk	lzк	IR	@VR		@ Iztc mV/°C		
		Nom.(V)	Min.(V)	Max.(V)	mA	Ω		mA	μA	V	Min.	Max.	mA
BZT52C5 V1-7-F	W8	5.1	4.8	5.4	5	60	480	1	2	2	-2.7	1.2	5

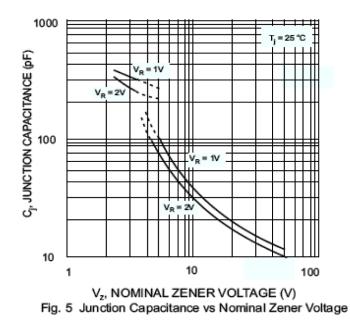
# Typical Characteristics:

T<sub>A</sub> = 25°C unless otherwise specified.







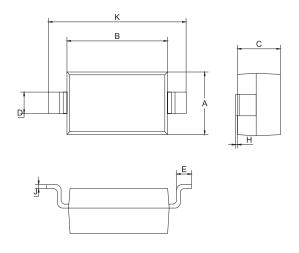




# multicomp PRO

### Package Outline:

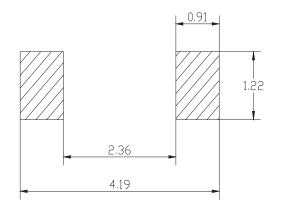
Plastic surface mounted package



SOD-123					
Dim.	Min.	Max.			
A	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 Тур.				
К	3.55	3.85			

**Dimensions : Millimetres** 

# **Soldering Footprint:**



**Dimensions : Millimetres** 

# **Package Information:**

Device	Package	Shipping		
BZT52C5V1-7-F	SOD-123	3,000 / Tape & Reel		

# Part Number Table

Description	Part Number
Surface Mount Zener Diode	BZT52C5V1-7-F

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