# multicomp PRO



Ultra-small surface mount package

**Applications:** 

Zener diode

#### Features:

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

### o\_\_\_\_o 1 2 Cathode Anode



SOD-123

# Max. Rating @ T<sub>A</sub> = 25°C unless otherwise specified

Para	meter	Symbol	Limits	Unit	
Forward voltage	@ I⊧ = 10mA	VF	0.9	V	
Power dissipation		Po	500	mW	
Thermal resistance junction to ambient air		R <sub>θJA</sub>	305	°C/W	
Operating junction temperature range		Тј	150	٦°	
Storage temperature range		Тѕтс	-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.

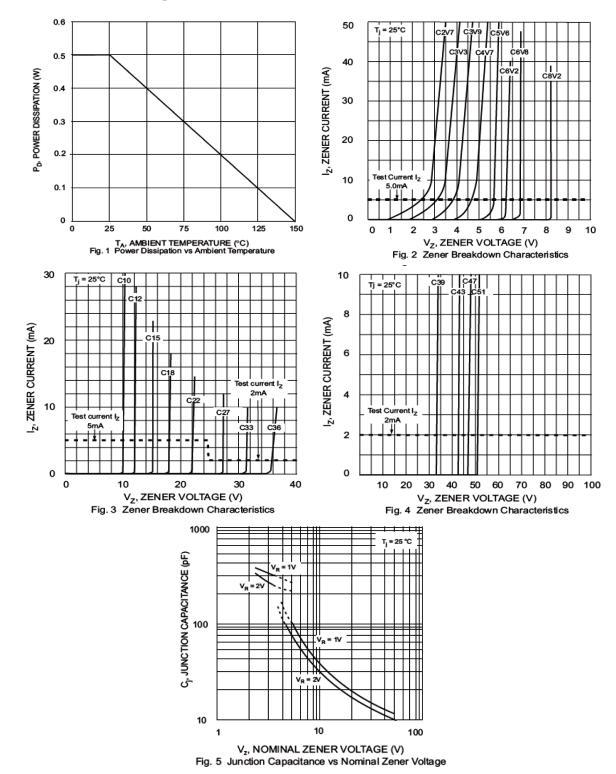
When provided, otherwise, parts are provided with date code only, and type number identifications appears on reel only. f = 1kHz

#### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Marking	Zener Voltage Range			Max. Zener Impedance		Max. Reverse Current		Typical Temperature		Test Current		
Code		Vz @ Izt		lzт	Zzt@Izt	Zzk@lzk	lzк	lr	@Vr	Coefficient@ Izтc mV/°C		Ітс
	Nom(V)	Min(V)	Max(V)	mA	9	Ω	mA	μA	V	Min.	Max.	mA
WF	10	9.4	10.6	5	20	150	1	0.2	7	4.5	8	5

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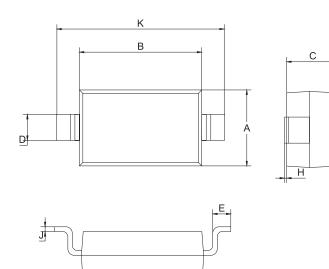


# Typical Characteristics @ TA = 25°C unless otherwise specified

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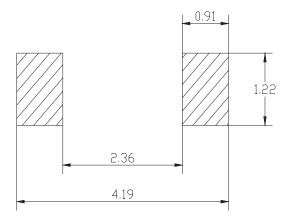


## Plastic surface mounted package



SOD-123				
Dim	Min	Max		
А	1.4	1.8		
В	2.55	2.85		
С	1.15 Typical			
D	0.5	0.6		
E	0.3	0.4		
н	0.02	0.10		
J	0.1 Typical			
К	3.55	3.85		
All Dimensions in mm				

# **Soldering Footprint**



Unit : mm

#### **Package Information**

Device	Package	Shipping
BZT52C10-7-F	SOD-123	3,000 / Tape & Reel

#### Part Number Table

Description	Part Number		
Surface mount zener diode	BZT52C10-7-F		

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