



Features: SOD-323

- Planar Die Construction
- · 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 <sub>F</sub> =10mA	VF	0.9	V
Power dissipation	Po	200	mW
Thermal resistance, junction to ambient air	RθjA	625	°C/W
Junction and storage temperature range	Tj, Tstg	-65 to +150	°C

#### Note:

Valid provided that device terminals are kept at ambient temperature Short duration test pulse used in minimize self-heating effect f = 1kHz







#### **Electrical Characteristics:**

Ratings at 25°C unless otherwise specified.

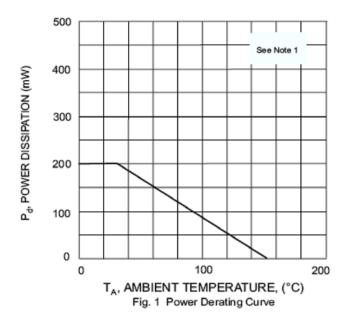
Part Number	Marking Code	Zener Voltage Range			Max. Zener Impedance			Max. Reverse Current		Temperature Coefficient of zener voltage @		
		Vz@Izτ I		Izт	<b>Z</b> zт <b>@l</b> zт	Zzk@lzk	Izĸ	lR	@VR	IZTC IIIV/ C		
		Nom(V)	Min(V)	Max(V)	mA	9	Ω	mA	μΑ	V	Min.	Max.
BZT52C15S-7-F	WJ	15	13.8	15.6	5	30	200	1	0.1	10.5	9.2	13

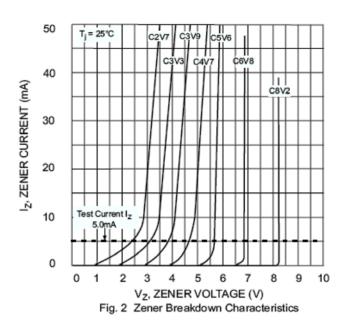
#### Note:

Valid provided that device terminals are kept at ambient temperature Tested with pulses, period=5ms, pulse width =  $300\mu s$  f = 1kHz

### **Typical Characteristics:**

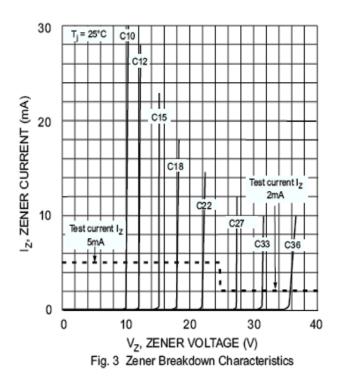
T<sub>A</sub> = 25°C unless otherwise specified.

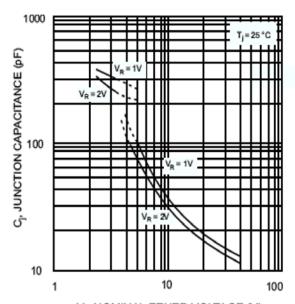




multicomp



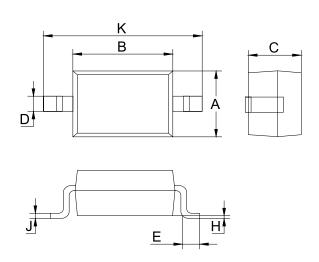




V<sub>z</sub>, NOMINAL ZENER VOLTAGE (V) Fig. 4 Junction Capacitance vs Nominal Zener Voltage

## Package Outline:

Plastic surface mounted package



SOD-323					
Dim.	Min.	Max.			
А	1.275	1.325			
В	1.675	1.725			
С	0.9 Typ.				
D	0.25	0.35			
Е	0.27	0.37			
Н	0.02	0.1			
J	0.1 Typ.				
К	2.6	2.7			

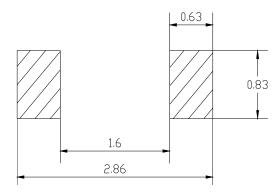
Dimensions: Millimetres

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### **Soldering Footprint:**



**Dimensions: Millimetres** 

### **Package Information:**

Device	Package	Shipping
BZT52C15S-7-F	SOD-323	3,000 / Tape & Reel

#### **Part Number Table**

Description	Part Number			
Surface Mount Zener Diode	BZT52C15S-7-F			

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