

**Small Signal Diode**



**Features**

- ◇Wide zener voltage range selection : 2.4V to 75V
- ◇Vz Tolerance Selection of ±2%
- ◇Moisture sensitivity level 1
- ◇Matte Tin(Sn) lead finish with Nickel(Ni) underplate
- ◇Pb free version and RoHS compliant
- ◇Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code

**Mechanical Data**

- ◇Case : Flat lead SOD-323 small outline plastic package
- ◇Terminal: Matte tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ◇High temperature soldering guaranteed: 260°C/10s
- ◇Polarity : Indicated by cathode band
- ◇Weight : 4.02±0.5 mg

**Ordering Information**

Part No.	Package	Packing
BZT52BxxS RR	SOD-323F	3Kpcs / 7" Reel

**Maximum Ratings and Electrical Characteristics**

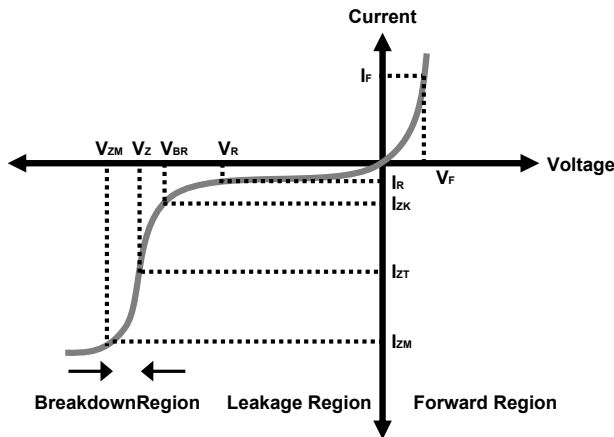
Rating at 25°C ambient temperature unless otherwise specified.

**Maximum Ratings**

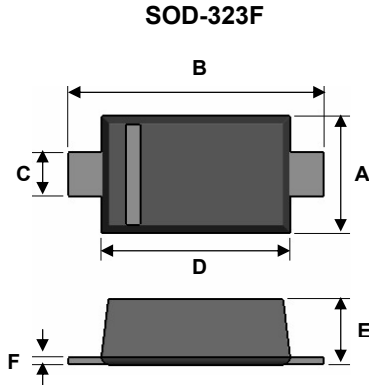
Type Number	Symbol	Value	Units
Power Dissipation	P <sub>D</sub>	200	mW
Forward Voltage	I <sub>F</sub> =10mA V <sub>F</sub>	1	V
Thermal Resistance (Junction to Ambient)	(Note 1) R <sub>θJA</sub>	625	°C/W
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to + 150	°C

Notes:1. Valid provided that electrodes are kept at ambient temperature

**Zener I vs. V Characteristics**



- V<sub>BR</sub>** : Voltage at I<sub>ZK</sub>
- I<sub>ZK</sub>** : Test current for voltage V<sub>BR</sub>
- Z<sub>ZK</sub>** : Dynamic impedance at I<sub>ZK</sub>
- I<sub>ZT</sub>** : Test current for voltage V<sub>Z</sub>
- V<sub>Z</sub>** : Voltage at current I<sub>ZT</sub>
- Z<sub>ZT</sub>** : Dynamic impedance at I<sub>ZT</sub>
- I<sub>ZM</sub>** : Maximum steady state current
- V<sub>ZM</sub>** : Voltage at I<sub>ZM</sub>



Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.15	1.35	0.045	0.053
B	2.30	2.70	0.091	0.106
C	0.25	0.40	0.010	0.016
D	1.60	1.80	0.063	0.071
E	0.80	1.00	0.031	0.039
F	0.05	0.20	0.002	0.008