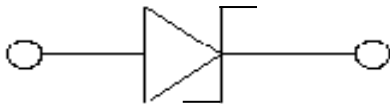


Zener Diodes



Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Zener Voltage 56V

Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Power Dissipation	P_D	mW	500
Storage Temperature Range	T_{stg}	$^\circ\text{C}$	-55~+150
Maximum Junction Temperature	T_J	$^\circ\text{C}$	-55~+150
Maximum Regulator Current	I_{ZM}	mA	P_D / V_Z
Maximum Forward Voltage ($I_F=10\text{mA}$)	V_F	V	0.9
Thermal Resistance Junction to Ambient Air*	$R_{\theta JA}$	$^\circ\text{C/W}$	250

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

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZT52C56	F2	Approximate 0.011	3000	30000	120000	7" reel

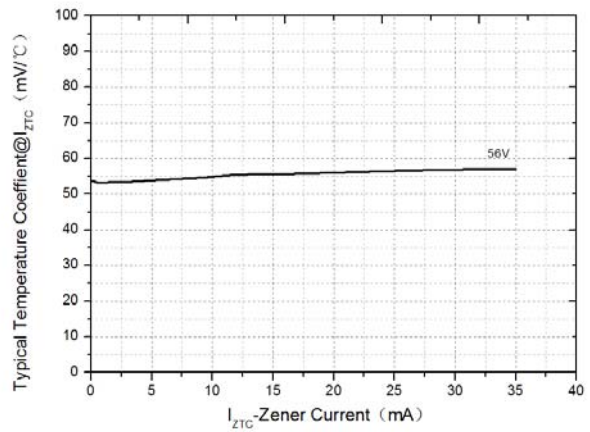
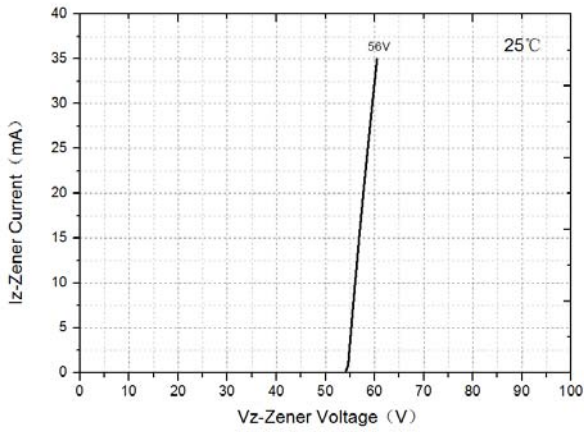
■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Type Number	Device Marking	V_Z at I_{ZT} (V)			I_{ZT}	$Z_{ZT}(\Omega)$		$Z_{ZK}(\Omega)$		$I_R(\mu\text{A})@V_R$		Typical Temperature Coefficient@ IZTC mV/°C		Test Current IZTC
		min.	typ.	max.	mA	$I_Z(\text{mA})$	max.	$I_{ZK}(\text{mA})$	max.	max	$V_R(\text{V})$	Min	Max	mA
BZT52C56	X1	53	56	59	2	2	200	1	1000	0.1	42	52.2	63.8	5

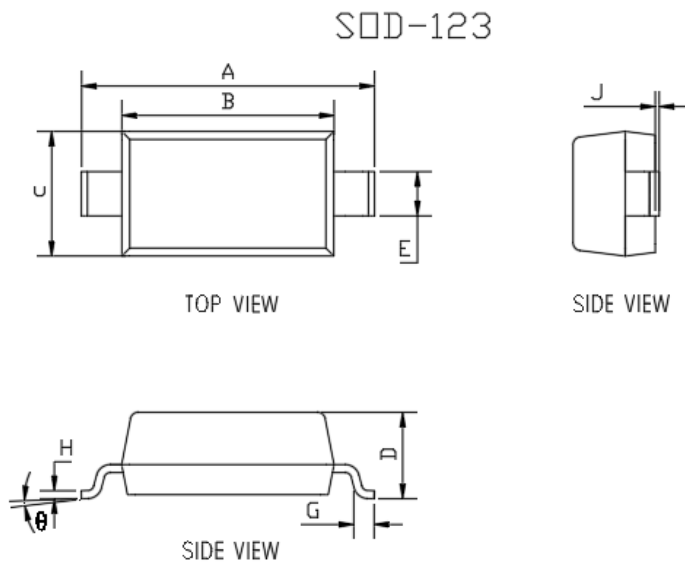


BZT52C56

■ Characteristics (Typical)

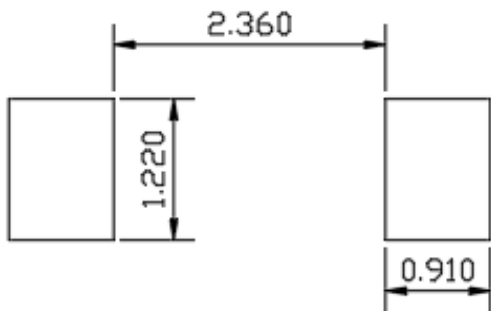


■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.140	0.152	3.550	3.850
B	0.100	0.112	2.550	2.850
C	0.055	0.071	1.400	1.800
D	0.037	0.053	0.950	1.350
E	0.020	0.028	0.510	0.710
G	0.006	0.018	0.150	0.450
H	0.003	0.010	0.080	0.250
J	0.000	0.006	0.000	0.150
θ	0	8°	0	8°

■ Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT



BZT52C56

Disclaimer

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