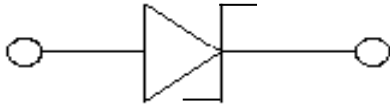


Zener Diodes



Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Zener Voltage 2.0V



Mechanical Data

- **Package:** SOD-123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Power Dissipation	P _D	mW	500
Storage Temperature Range	T _{stg}	°C	-55~+150
Junction Temperature	T _J	°C	-55~+150
Maximum Regulator Current	I _{ZM}	mA	P _D /V _Z
Maximum Forward Voltage (I _F =10mA _{dc})	V _F	V	0.9
Thermal Resistance Junction to Ambient Air*	R _{θJA}	°C/W	250

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZT52C2V0	F2	Approximate 0.011	3000	30000	120000	7" reel

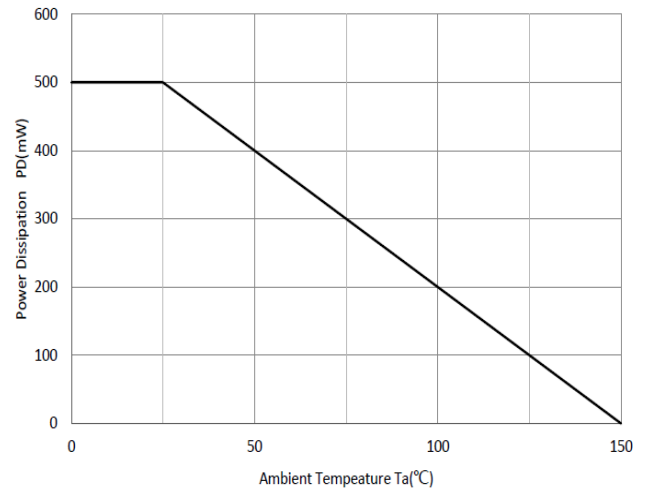
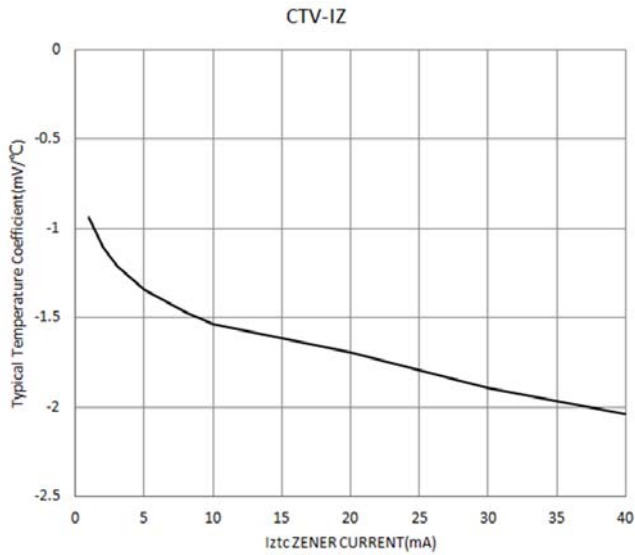
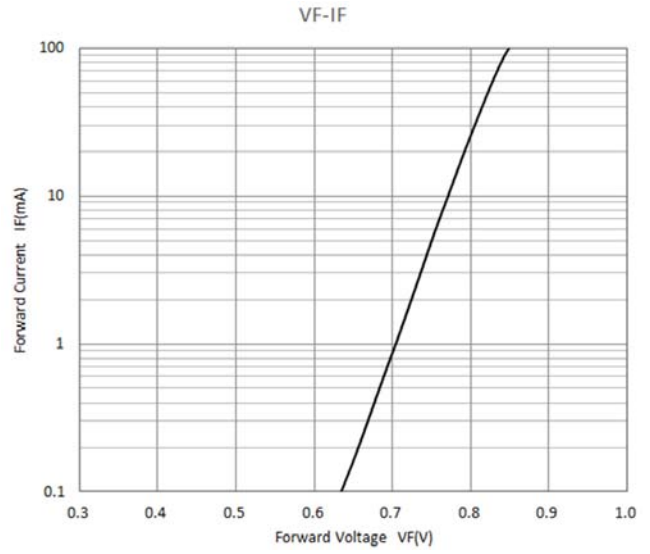
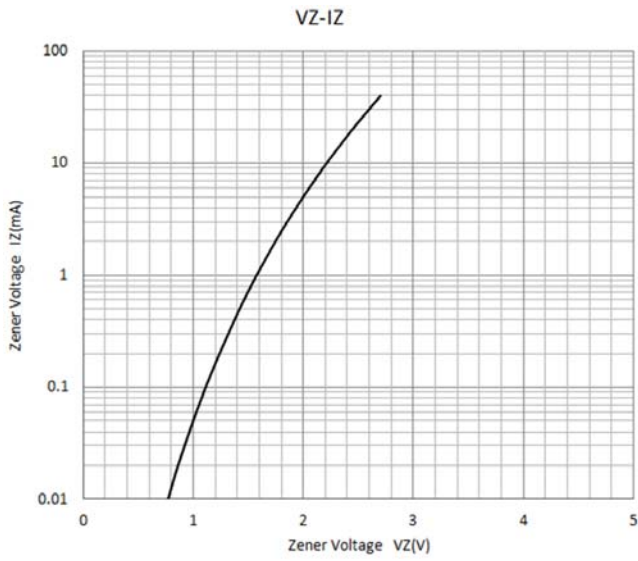
■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Type Number	Device Marking	V _Z at I _{ZT} (V)*1			Z _{zt} (Ω)*2		Z _{zk} (Ω)*2		I _R (μA)@V _R	
		min.	typ.	max.	I _{ZT} (mA)	max.	I _{zk} (mA)	max.	max.	V _R (V)
BZT52C2V0	WY	1.9	2.0	2.1	5	100	1.0	600	90	1.0



BZT52C2V0

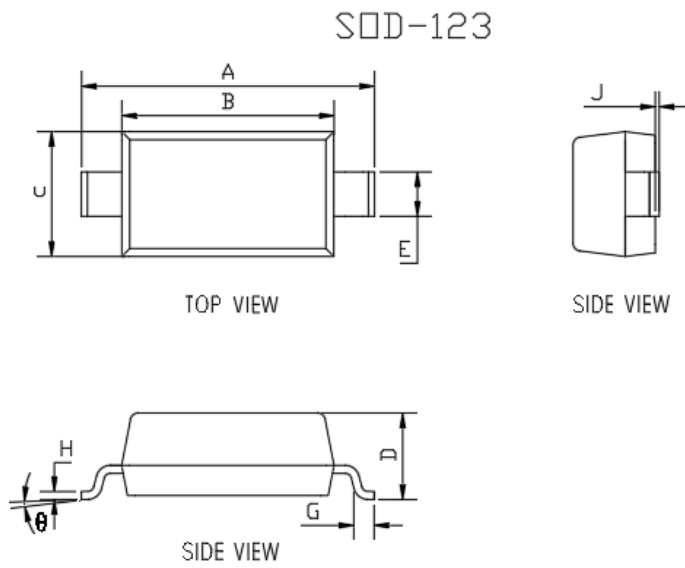
■ Characteristics (Typical)





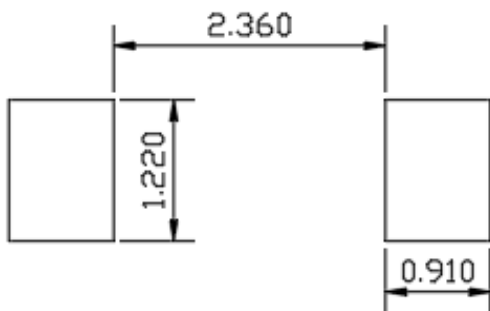
BZT52C2V0

■ 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



BZT52C2V0

Disclaimer

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