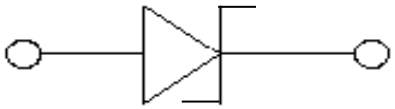
Zener Diodes





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℃ 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=10mAdc）	V_F	V	0.9
Thermal Resistance Junction to Ambient Air*	$R_{\theta JA}$	°C /W	250

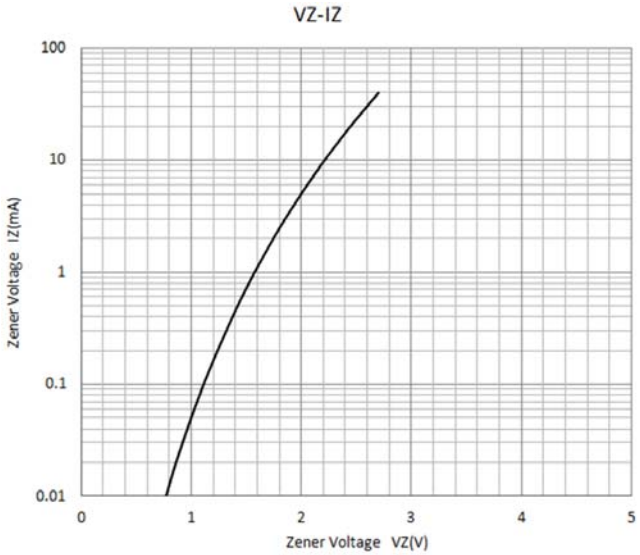
■ Ordering Information (Example)

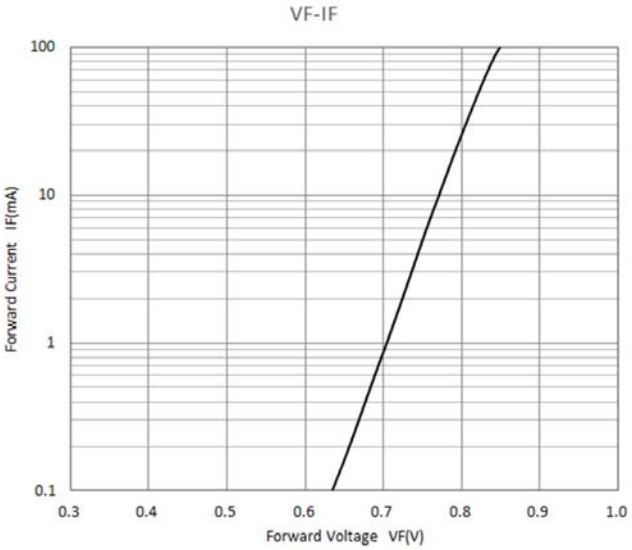
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZT52C2V0	F2	Approximate 0.011	3000	30000	120000	7” reel

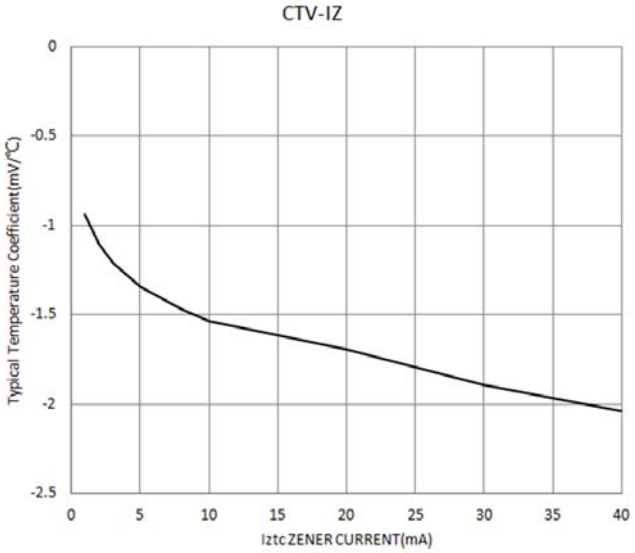
■ Electrical Characteristics (T_a=25℃ Unless otherwise specified)

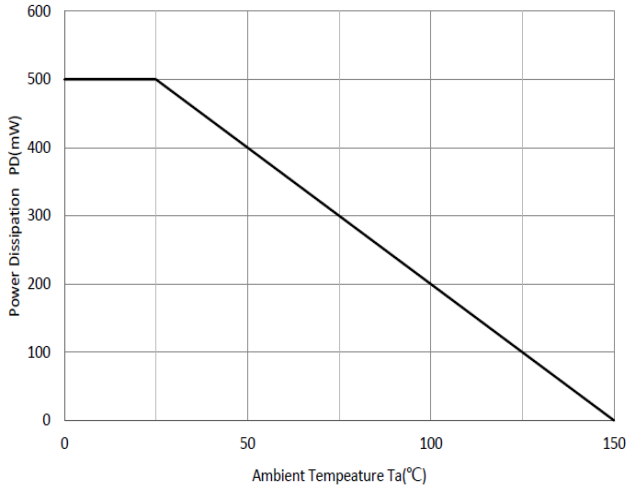
Type Number	Device Marking	V_z at IzT (V)*1			Z_{zt}(Ω)*2		Z_{zk}(Ω)*2		I_R(μA)@V_R	
		min.	typ.	max.	I_{ZT}(mA)	max.	I_{zk}(mA)	max.	max	V_R(V)
BZT52C2V0	WY	1.9	2.0	2.1	5	100	1.0	600	90	1.0

■ **Characteristics** (Typical)

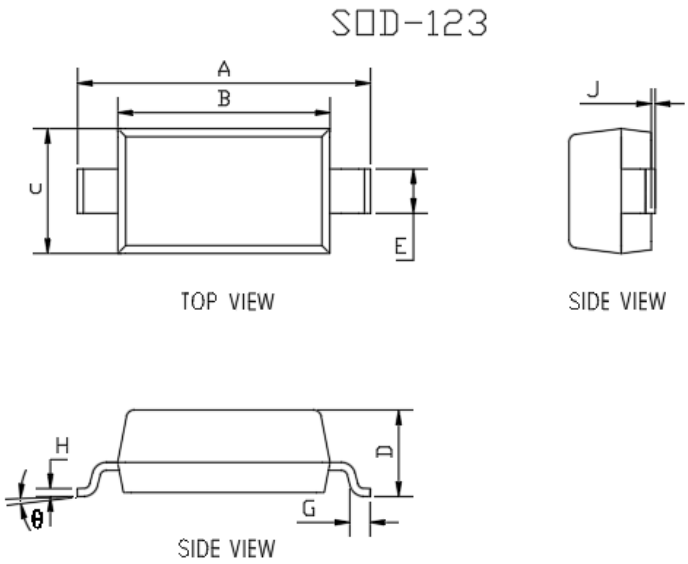






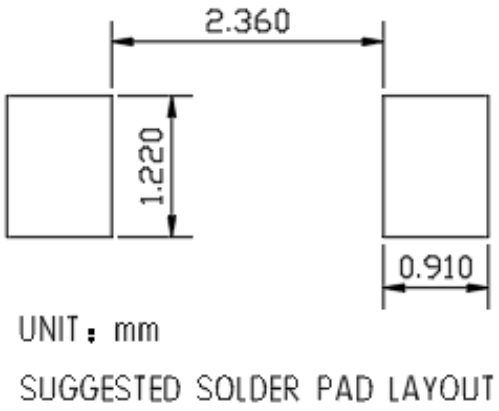


■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MN	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



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