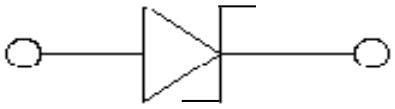
Zener Diodes





Features

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

Mechanical Data

- **Package:** SOD-323
- **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 (*Note)	P_D	mW	300
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（IF=10mAdc）	V_F	V	0.9
Thermal Resistance Junction to Ambient Air(*Note)	$R_{\theta JA}$	°C /W	417

Note:Device mounted on PCB

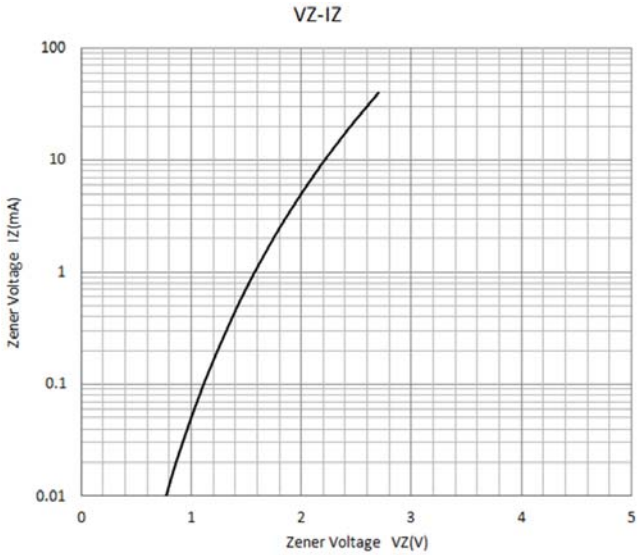
■ Ordering Information (Example)

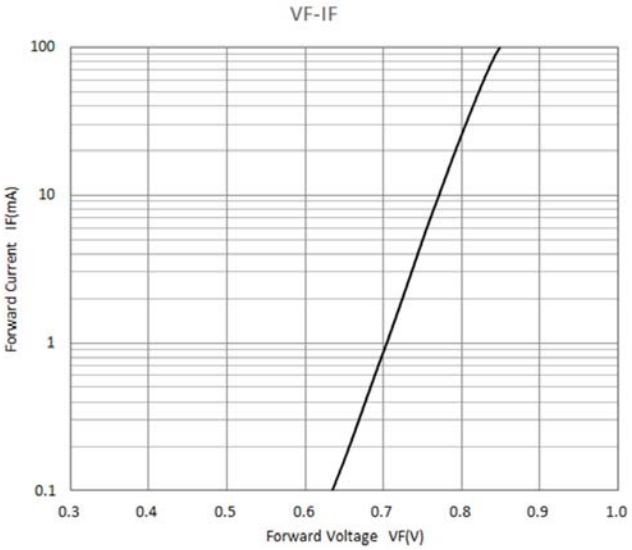
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZT52C2V0S	F2	Approximate 0.0048	3000	30000	120000	7” reel

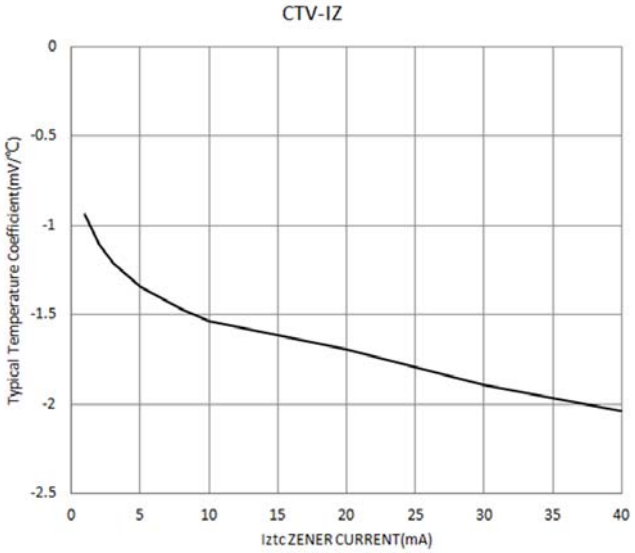
■ Electrical Characteristics (T_a=25℃ Unless otherwise specified)

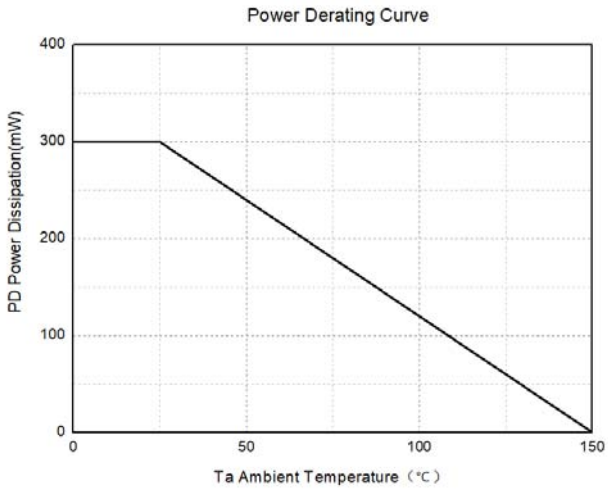
Type Number	Device Marking	V_z at IzT (V)*1			Z_{zt}(Ω)*2		Z_{zk}(Ω)*2		I_R(μA)@V_R	
		min.	typ.	max.	I_{ZT}(mA)	max.	I_{zk}(mA)	max.	max	V_R(V)
BZT52C2V0S	WY	1.9	2.0	2.1	5	100	1.0	600	90	1.0

■ **Characteristics** (Typical)

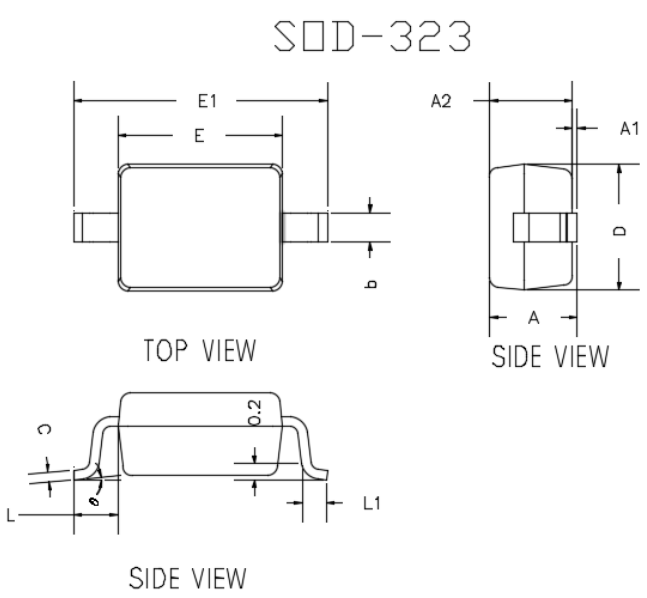






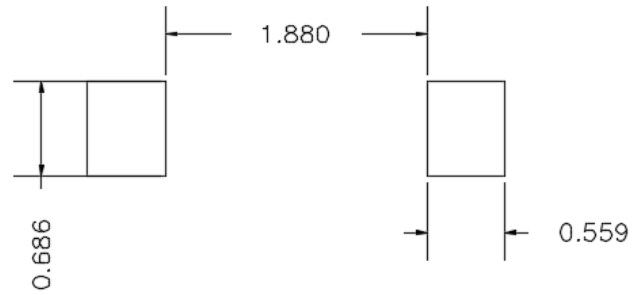


■Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
c	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
θ	0°	8°	0°	8°

■Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

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