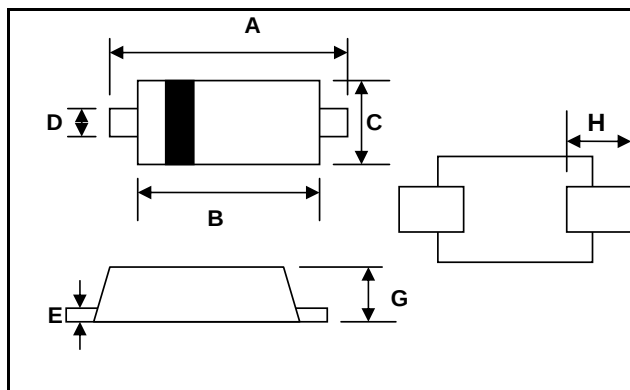


**FEATURE**

- ◆ Planer Die Construction
- ◆ 200mW Power Dissipation
- ◆ 2.4V ~ 5.1V Nominal Zener Voltage
- ◆ $\pm 5\%$ Standard Vz Tolerance
- ◆ Designed for surface Mount Application.
- ◆ Plastic Material - UL Recognition Flammability Classification 94V-0

MECHANICAL DATA

- ◆ Case: SOD-323, Molded Plastic.
- ◆ Terminals: Solder Plated, Solderable per MIL-STD-202, Method 208
- ◆ Polarity: Cathode Band.
- ◆ Marking: Device Code See Page
- ◆ Weight: 0.004 grams (approx)
- ◆ Mounting: Type Number
- ◆ Lead Free: For RoHS / Lead free Version, Add "LF" suffix to part Number, See page 3.

**SOD-323**

Dim.	Min.	Max.
A	2.30	2.70
B	1.75	1.95
C	1.15	1.350
D	0.25	0.35
E	0.05	0.15
G	0.70	0.95
H	0.30	-

All Dimensions in mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS @Ta = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation at Ta = 25°C (Note 1)	Pd	200	mW
Forward Voltage @ IF = 10mA	VF	0.9	V
Thermal Resistance Junction to Ambient (Note 1)	RθJA	625	°C/W
Operating and Storage Temperature Range	Tj, TSTG	-65 to + 150	°C

Note: 1). Valid provided that device terminals are kept at ambient temperature.





Electrical Characteristics @Ta = 25°C unless otherwise specified

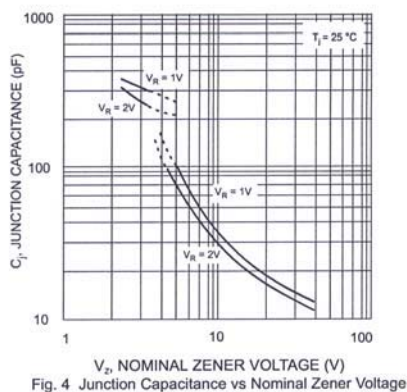
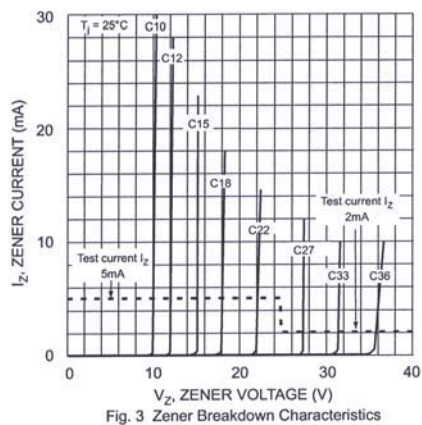
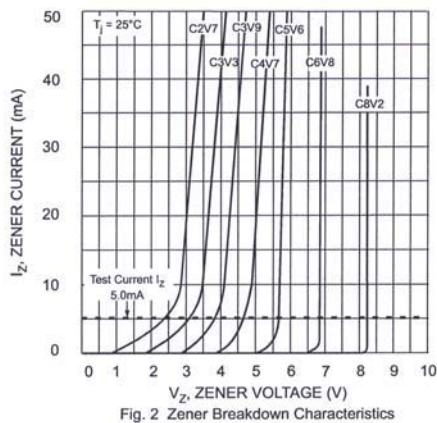
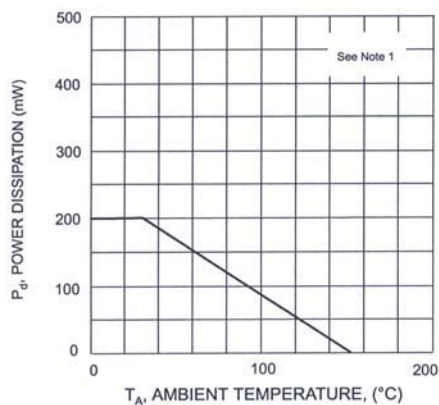
Type Number (Note 1) ±5%	Device Marking Code	Zener Voltage Range (Note 2)			Maximum Zener Impedance (Note 3)				Max Reverse Leakage		Temp. Coefficient of zener voltage @IZT mV/°C	
		Vz @ IZT			ZZT @ IZT		ZZK @ IZK		IR	@ VR		
		Nom (V)	Min (V)	Max (V)	Ω	(mA)	Ω	(mA)	(uA)	(V)		
BZT52C2V4S	WX	2.40	2.28	2.52	85.0	5.0	600	1.0	100.0	1.0	-3.5	0
BZT52C2V7S	W1	2.70	2.57	2.84	83.0	5.0	600	1.0	75.0	1.0	-3.5	0
BZT52C3V0S	W2	3.00	2.85	3.15	95.0	5.0	600	1.0	50.0	1.0	-3.5	0
BZT52C3V3S	W3	3.30	3.14	3.47	95.0	5.0	600	1.0	25.0	1.0	-3.5	0
BZT52C3V6S	W4	3.60	3.42	3.78	95.0	5.0	600	1.0	15.0	1.0	-3.5	0
BZT52C3V9S	W5	3.90	3.71	4.10	95.0	5.0	600	1.0	10.0	1.0	-3.5	0
BZT52C4V3S	W6	4.30	4.09	4.52	95.0	5.0	600	1.0	5.0	1.0	-3.5	0
BZT52C4V7S	W7	4.70	4.47	4.94	78.0	5.0	500	1.0	5.0	1.0	-3.5	0.2
BZT52C5V1S	W8	5.10	4.85	5.36	60.0	5.0	480	1.0	0.1	0.8	-2.7	1.2
BZT52C5V6S	W9	5.60	5.32	5.88	40.0	5.0	400	1.0	0.1	1.0	-2.0	2.5
BZT52C6V2S	WA	6.20	5.89	6.51	10.0	5.0	150	1.0	0.1	2.0	0.4	3.7
BZT52C6V8S	WB	6.80	6.46	7.14	8.0	5.0	80	1.0	0.1	3.0	1.2	4.5
BZT52C7V5S	WC	7.50	7.13	7.88	7.0	5.0	80	1.0	0.1	5.0	2.5	5.3
BZT52C8V2S	WD	8.20	7.79	8.61	7.0	5.0	80	1.0	0.1	6.0	3.2	6.2
BZT52C9V1S	WE	9.10	8.65	9.56	10.0	5.0	100	1.0	0.1	7.0	3.8	7
BZT52C10S	WF	10.00	9.50	10.50	15.0	5.0	150	1.0	0.1	7.5	4.5	8
BZT52C11S	WG	11.00	10.45	11.55	20.0	5.0	150	1.0	0.1	8.5	5.4	9
BZT52C12S	WH	12.00	11.40	12.60	20.0	5.0	150	1.0	0.1	9.0	6.0	10
BZT52C13S	WI	13.00	12.35	13.65	25.0	5.0	170	1.0	0.1	10.0	7.0	11
BZT52C15S	WJ	15.00	14.25	15.75	30.0	5.0	200	1.0	0.1	11.0	9.2	13
BZT52C16S	WK	16.00	15.20	16.80	40.0	5.0	200	1.0	0.1	12.0	10.4	14
BZT52C18S	WL	18.00	17.10	18.90	50.0	5.0	225	1.0	0.1	14.0	12.4	16
BZT52C20S	WM	20.00	19.00	21.00	50.0	5.0	225	1.0	0.1	15.0	14.4	18
BZT52C22S	WN	22.00	20.90	23.10	55.0	5.0	250	1.0	0.1	17.0	16.4	20
BZT52C24S	WO	24.00	22.80	25.20	80.0	5.0	250	1.0	0.1	18.0	18.4	22
BZT52C27S	WP	27.00	25.65	28.35	80.0	5.0	300	1.0	0.1	20.0	21.4	25.3
BZT52C30S	WQ	30.00	28.50	31.50	80.0	5.0	300	1.0	0.1	22.5	24.4	29.4
BZT52C33S	WR	33.00	31.35	34.65	80.0	5.0	325	1.0	0.1	25.0	27.4	33.4
BZT52C36S	WS	36.00	34.20	37.80	90.0	5.0	350	1.0	0.1	27.0	30.4	37.4
BZT52C39S	WT	39.00	37.05	40.95	90.0	5.0	350	1.0	0.1	29.0	33.4	41.2
BZT52C43S	WY	43.00	40.85	45.15	100	5.0	700	1.0	0.1	32.0	10.0	12
BZT52C47S	WZ	47.00	44.65	49.35	100	5.0	750	1.0	0.1	35.0	10.0	12
BZT52C51S	XA	51.00	48.45	53.55	100	5.0	750	1.0	0.1	38.0	10.0	12

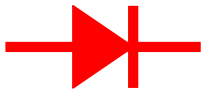
- Note: (1) Type numbers listed have standard tolerance on the nominal zener voltage of ±5%.
(2) Measured with pulses tp = 5ms.
(3) f = 1KHz





Typical Characteristics.





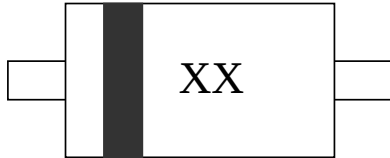
POWER SEMICONDUCTORS

BZT52C2V4S - BZT52C51S

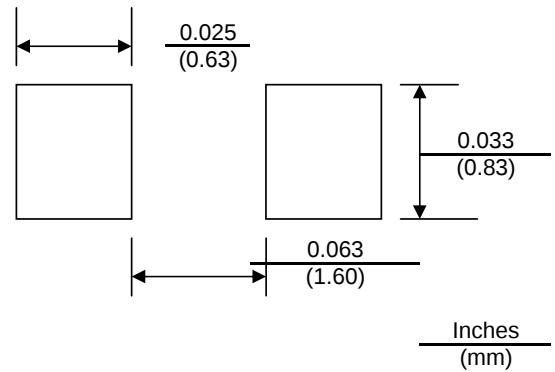


200mW Surface Mount Zener Diode

MARKING INFORMATION

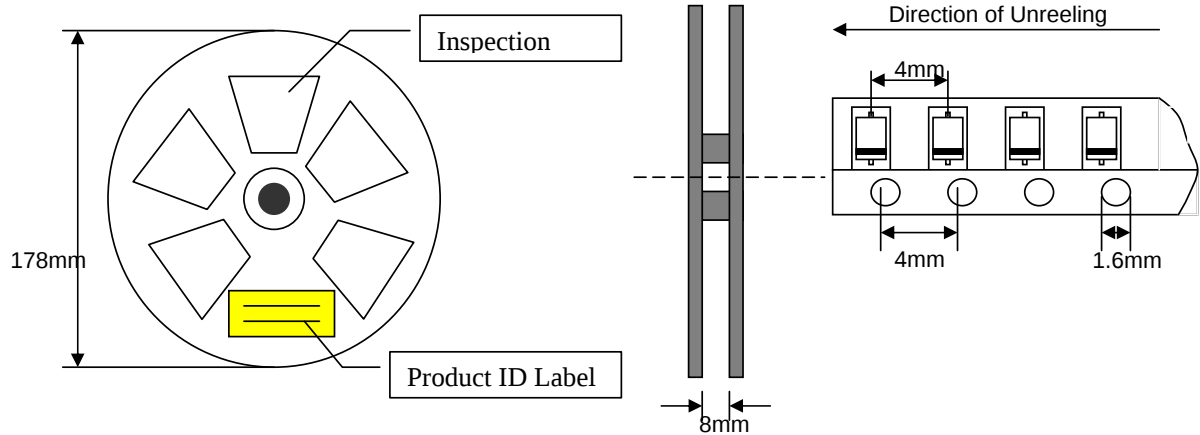


Cathode = Polarity Band
XX = Device Code See Type Number



PACKAGING INFORMATION

TAPE & REEL



Reel Diameter (mm)	Quantity (Pcs)	Inner Box Size L x W x H (mm)	Quantity (Pcs)	Carton Size L x W x H (mm)	Quantity (Pcs)	Approx . Gross Weight (KG)
178	5000	187x187x65	25,000	390x240x420	250,000	10

Note: (1) Anti-static plastic reel, white, water clear or blue color, Inspection hole might be varied in differed alignment.
(2) Components are packed in accordance with EAI standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
BZT52CxxS-T1	SOD-323	5K/Type & Reel



品質承諾標誌
Quality Commitment