



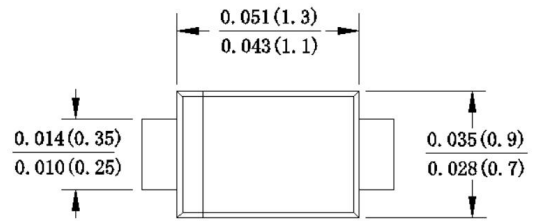
BZX584C2V4-BZX584C75

200mW Surface Mount Zener Diodes

Features

- High reliability.
- Very sharp reverse characteristic.
- Low reverse current level.
- Zener Voltage 2.4V~47V.
- Ideally suited for automated assembly processes.

SOD-523



Dimensions in inches and (millimeters)

Mechanical Data

- Case: Molded Plastic, SOD-523 .
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026.
- Polarity: marked on body.
- Mounting Position : Any.

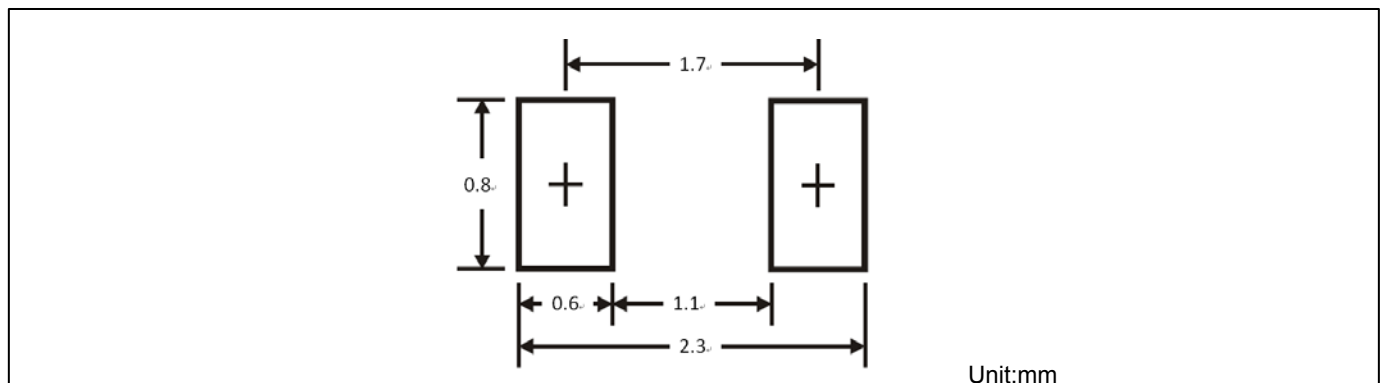
Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Power Dissipation(Note 1)	PD	200	mW
Forward Voltage (Note 2) @ IF = 10mA	VF	1.0	v
Typical Thermal Resistance(Note 1)	R _{θJA}	625	°C/W
Max operating Temperature	T _j	150	°C
Storage Temperature Range	T _{STG}	-55 — +150	°C

Notes: 1. Device mounted on FR-4 board with recommended soldering footprint.

Soldering Footprint



Unit:mm



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Electrical Characteristics Ta = 25°C unless otherwise specified

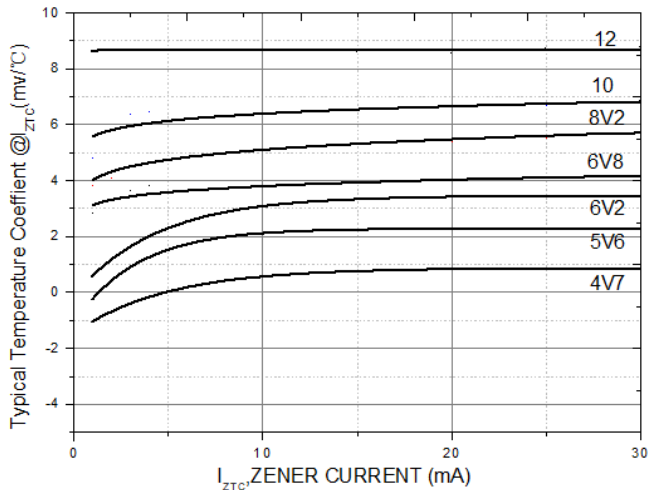
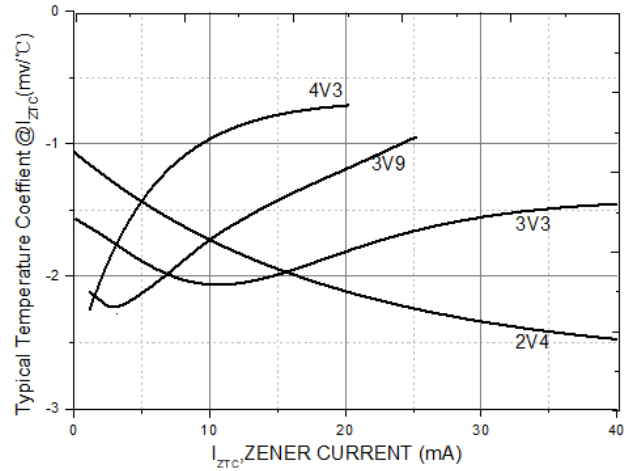
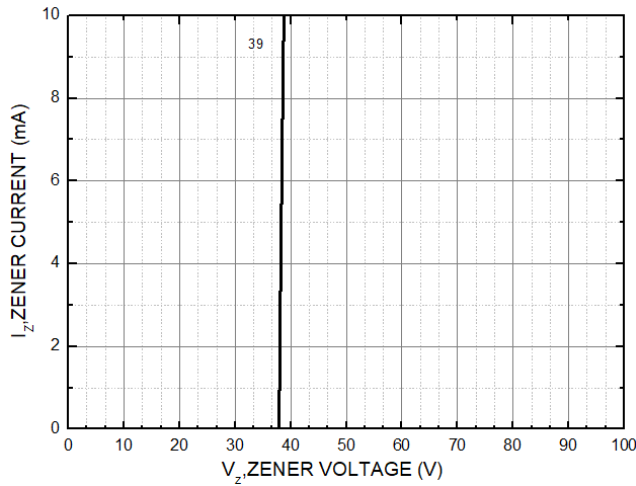
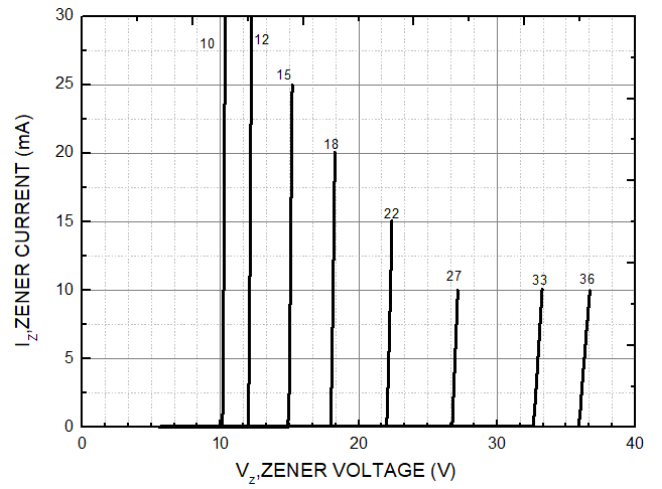
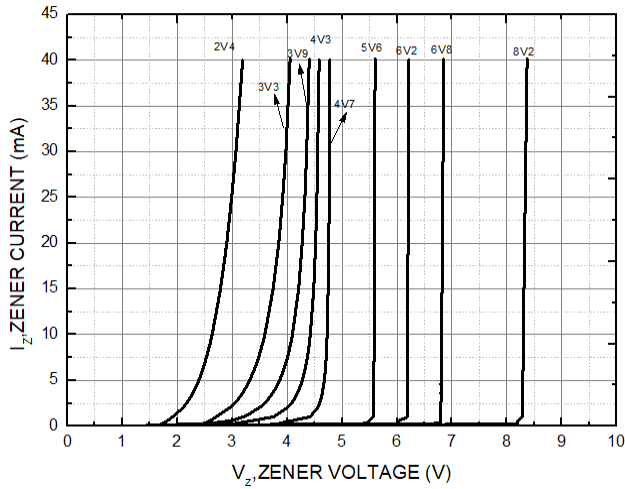
Type Number	Device Marking	V _z at I _{zT} (V)			Z _{zT} (Ω)		Z _{zK} (Ω)		I _R (μA)@V _R	
		min.	typ.	max.	I _{zT} (mA)	max.	I _{zK} (mA)	max.	max.	V _R (V)
BZX584C2V4	50	2.2	2.4	2.6	5	100	1	1000	50	1
BZX584C2V7	51	2.5	2.7	2.9	5	100	1	1000	20	1
BZX584C3V0	52	2.8	3	3.2	5	100	1	1000	10	1
BZX584C3V3	53	3.1	3.3	3.5	5	95	1	1000	5	1
BZX584C3V6	54	3.4	3.6	3.8	5	90	1	1000	5	1
BZX584C3V9	55	3.7	3.9	4.1	5	90	1	1000	3	1
BZX584C4V3	56	4	4.3	4.6	5	90	1	1000	3	1
BZX584C4V7	57	4.4	4.7	5	5	80	1	800	3	2
BZX584C5V1	58	4.8	5.1	5.4	5	60	1	500	2	2
BZX584C5V6	59	5.2	5.6	6	5	40	1	200	1	2
BZX584C6V2	5A	5.8	6.2	6.6	5	10	1	100	3	4
BZX584C6V8	5B	6.4	6.8	7.2	5	15	1	160	2	4
BZX584C7V5	5C	7	7.5	7.9	5	15	1	160	1	5
BZX584C8V2	5D	7.7	8.2	8.7	5	15	1	160	0.7	5
BZX584C9V1	5E	8.5	9.1	9.6	5	15	1	160	0.2	7
BZX584C10V	5F	9.4	10	10.6	5	20	1	160	0.1	8
BZX584C11V	5G	10.4	11	11.6	5	20	1	160	0.1	8
BZX584C12V	5H	11.4	12	12.7	5	25	1	80	0.1	8
BZX584C13V	5J	12.4	13	14.1	5	30	1	80	0.1	8
BZX584C15V	5K	14.3	15	15.8	5	30	1	80	0.05	10.5
BZX584C16V	5L	15.3	16	17.1	5	40	1	80	0.05	11.2
BZX584C18V	5M	16.8	18	19.1	5	45	1	80	0.05	12.6
BZX584C20V	5N	18.8	20	21.2	5	55	1	100	0.05	14
BZX584C22V	5P	20.8	22	23.3	5	55	1	100	0.05	15.4
BZX584C24V	5R	22.8	24	25.6	5	70	1	120	0.05	16.8
BZX584C27V	5S	25.1	27	28.9	2	80	0.5	300	0.05	18.9
BZX584C30V	5T	28	30	32	2	80	0.5	300	0.05	21
BZX584C33V	5U	31	33	35	2	80	0.5	300	0.05	23.2
BZX584C36V	5V	34	36	38	2	90	0.5	500	0.05	25.2
BZX584C39V	5X	37	39	41	2	130	0.5	500	0.05	27.3
BZX584C43V	5Y	40	43	46	2	150	0.5	500	0.05	30.1
BZX584C47V	5Z	44	47	50	2	170	0.5	500	0.05	32.9



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Typical Characteristics $T_a = 25^\circ\text{C}$ unless otherwise specified





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