

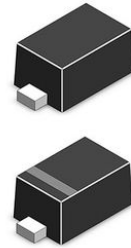


Power Dissipation 200mW Zener Diode BZX584C2V4 SOD-523 Thin SMD Package

Our Product Introduction

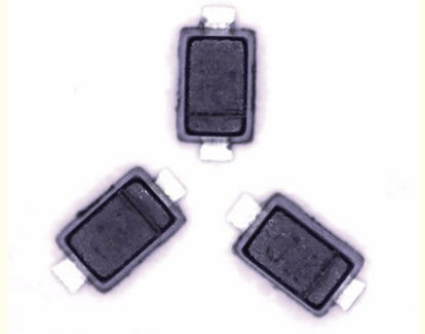
Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: BZX584C2V4
- Minimum Order Quantity: 8000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Product Name: Zener Diode
- Product Package Type: SOD-523
- PD: 200mW
- VZ (Nom.): 2.4V
- VZ (Min.): 2.2V
- VZ (Max.): 2.6V
- IZK: 1.0mA
- IR (Max.): 20μA
- Highlight: 200mW Zener Diode, Zener Diode BZX584C2V4, Power Dissipation Diode 200mW



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Product Description

Power Dissipation 200mW Zener Diode BZX584C2V4 SOD-523 Thin SMD Package

Surface Mount Zener Diode DATASHEET: [BZX584C2V4_BZX584C75V\(SOD-523\)_v2303.1.pdf](#)

Surface Mount Zener Diode Characteristics:

Constant voltage control
It has wide voltage range selection 2.4V to 75V
Surface Mount Zener Diode is SOD-523 Thin SMD package
RoHS compliant / Green EMC
Matte Tin (Sn) Lead finish
Cathode Band / Device marking
Refer to table list

Surface Mount Zener Diode Absolute Maximum Ratings (TA=25):

Parameter	Symbol	Value	Units
Power Dissipation	PD	200	mW
Junction Temperature	TJ	150	
Storage Temperature	TSTG	-55 to +150	
Maximum Regulator Current	IZM	PD / VZ	mA

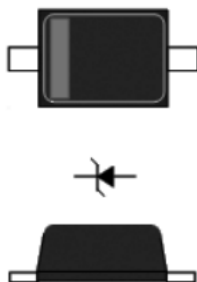
Surface Mount Zener Diode Electrical Characteristics (TA=25):

Part Number	VZ *1			IZT	ZZT @ IZT	ZZK @ IZK	IZK	IR	V R
	Nom. (V)	Min. (V)	Max. (V)	(mA)	Max.(Ω)		(mA)	Max. (μA)	(V)
BZX584C2V4	2.4	2.2	2.6	5	100	600	1.0	50	1.0
BZX584C2V7	2.7	2.5	2.9	5	100	600	1.0	20	1.0
BZX584C3V0	3.0	2.8	3.2	5	95	600	1.0	10	1.0
BZX584C3V3	3.3	3.1	3.5	5	95	600	1.0	5	1.0
BZX584C3V6	3.6	3.4	3.8	5	90	600	1.0	5	1.0
BZX584C3V9	3.9	3.7	4.1	5	90	600	1.0	3	1.0
BZX584C4V3	4.3	4.0	4.6	5	90	600	1.0	3	1.0
BZX584C4V7	4.7	4.4	5.0	5	80	500	1.0	3	2.0
BZX584C5V1	5.1	4.8	5.4	5	60	480	1.0	2	2.0
BZX584C5V6	5.6	5.2	6.0	5	40	400	1.0	1	2.0
BZX584C6V2	6.2	5.8	6.6	5	10	150	0.5	3	4.0
BZX584C6V8	6.8	6.4	7.2	5	15	80	0.5	2	4.0
BZX584C7V5	7.5	7.0	7.9	5	15	80	0.5	1	5.0
BZX584C8V2	8.2	7.7	8.7	5	15	80	0.5	0.7	5.0
BZX584C9V1	9.1	8.5	9.6	5	15	100	0.5	0.5	6.0
BZX584C10V	10	9.4	10.6	5	20	150	1.0	0.2	7.0
BZX584C11V	11	10.4	11.6	5	20	150	1.0	0.1	8.0
BZX584C12V	12	11.4	12.7	5	25	150	1.0	0.1	8.0
BZX584C13V	13	12.4	14.1	5	30	170	1.0	0.1	8.0

BZX584C15V	15	13.8	15.6	5	30	200	1.0	0.1	10.5
BZX584C16V	16	15.3	17.1	5	40	200	1.0	0.1	11.2
BZX584C18V	18	16.8	19.1	5	45	225	1.0	0.1	12.6
BZX584C20V	20	18.8	21.2	5	55	225	1.0	0.1	14.0
BZX584C22V	22	20.8	23.3	5	55	250	1.0	0.1	15.4
BZX584C24V	24	22.8	25.6	5	70	250	1.0	0.1	16.8
BZX584C27V	27	25.1	28.9	2	80	300	0.5	0.1	18.9
BZX584C30V	30	28.0	32.0	2	80	300	0.5	0.1	21.0
BZX584C33V	33	31.0	35.0	2	80	325	0.5	0.1	23.1
BZX584C36V	36	34.0	38.0	2	90	350	0.5	0.1	25.2
BZX584C39V	39	37.0	41.0	2	130	350	0.5	0.1	27.3
BZX584C43V	43	40.0	46.0	2	100	700	1.0	0.1	32.0
BZX584C47V	47	44.65	49.35	2	170	1000	0.25	0.1	36.0
BZX584C51V	51	48.45	53.55	2	180	1300	0.25	0.1	39.0
BZX584C56V	56	53.2	58.8	2	200	1400	0.25	0.1	43.0
BZX584C62V	62	58.9	65.1	2	225	1400	0.25	0.1	47.0
BZX584C68V	68	64.6	71.4	2	240	1600	0.25	0.1	52.0
BZX584C75V	75	71.25	78.75	2	265	1700	0.25	0.1	56.0
*1 Pulse width = 10 ms.									

SOD-523 Surface Mount Zener Diode Circuit Diagram:

SOD-523



SOD-523 Surface Mount Zener Diode Typical Characteristics: Fig1. Zener Breakdown Characteristic

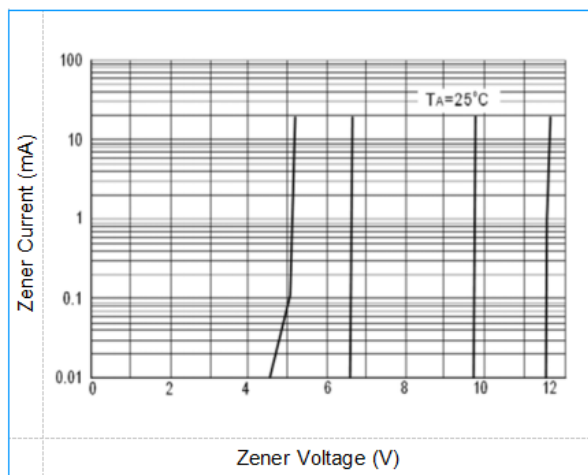


Fig2. Zener Breakdown Characteristics

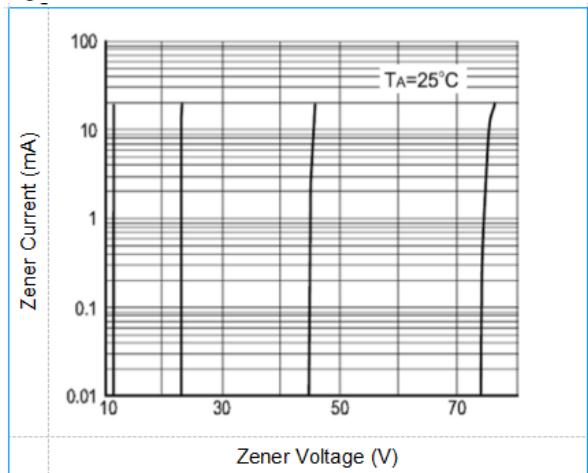


Fig3. Typical Forward Voltage

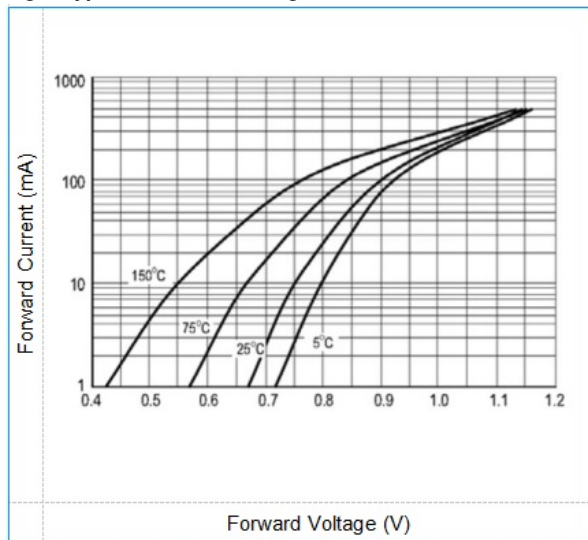


Fig4. Effect of Zener Voltage on Zener Impedance

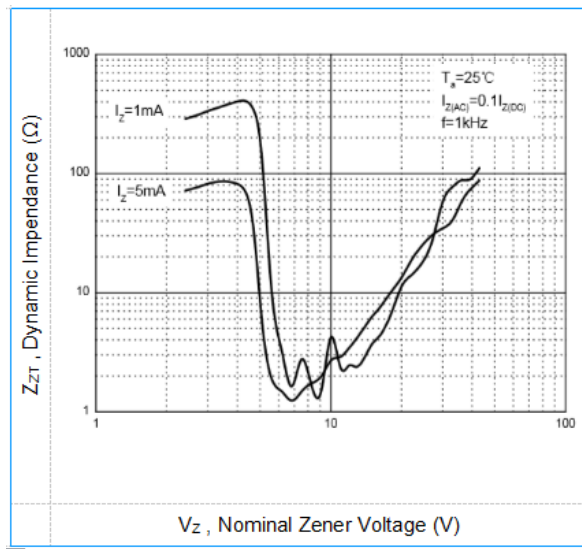


Fig5. Typical Capacitance

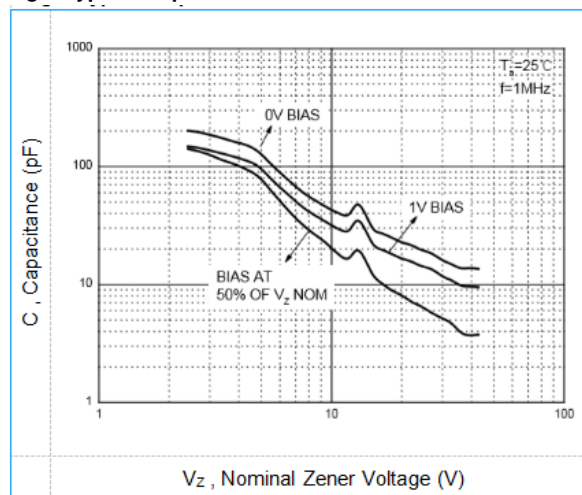


Fig6. Typical Leakage Current

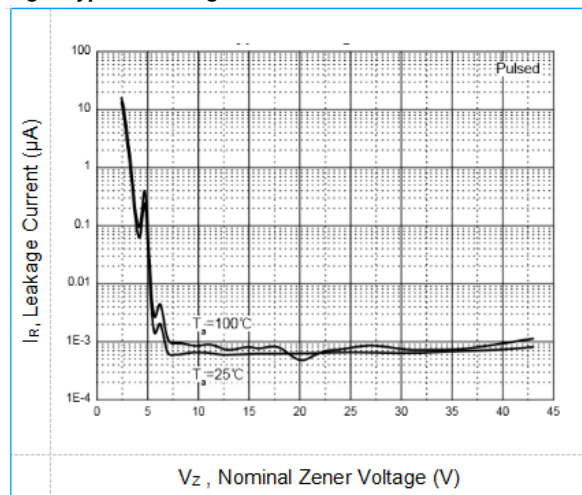
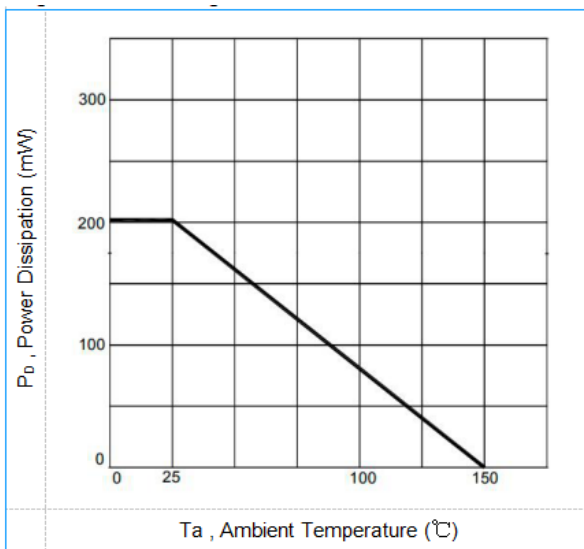
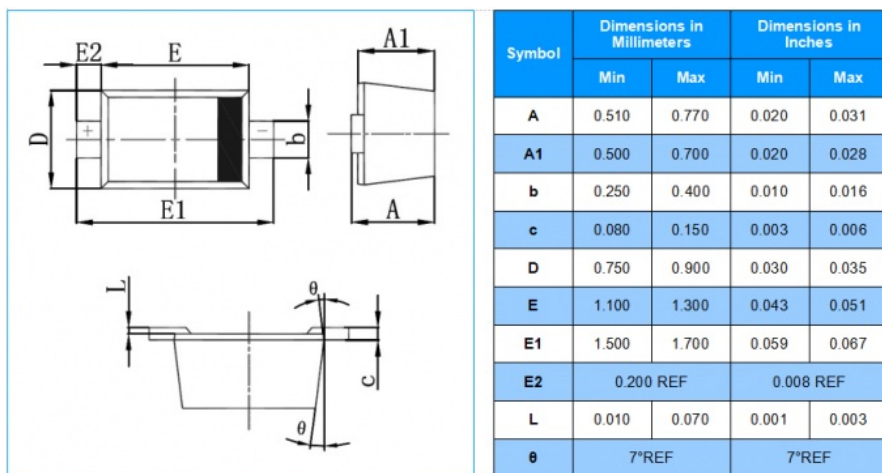


Fig7. Power Derating Curve



SOD-523 Surface Mount Zener Diode Dimensions:



SOD-523 Package Zener Diode Ordering Information:

Part Number	Component Package	Shipping
BZX584C2V4~BZX584C75V	SOD-523	Tape & Reel 8000 PCS / 7" Reel

