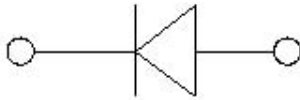
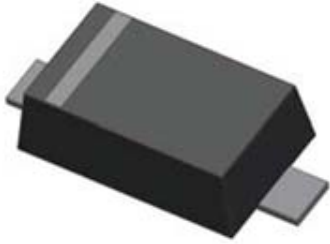


## Small Signal Zener Diodes



### Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- Zener Voltage 3.6V~36V
- $V_z$ -tolerance  $\pm 2\%$  approximately
- ESD Rating of Class 3 ( $> 16$  kV) per Human Body Mode
- Part no. with suffix "Q" means AEC-Q101 qualified

### Applications

- General regulation functions

### Mechanical Data

- **Case:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Power Dissipation	$P_D$	mW	250
Storage Temperature Range	$T_{stg}$	$^\circ\text{C}$	-55~+150
Junction Temperature	$T_J$	$^\circ\text{C}$	-55~+150
Maximum Regulator Current	$I_{ZM}$	mA	$P_D / V_z$
Maximum Forward Voltage ( $I_F=10\text{mA}$ )	$V_F$	V	0.9
Thermal Resistance Junction to Ambient Air*	$R_{\theta JA}$	$^\circ\text{C} / \text{W}$	500

### ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZX584B3V6Q THRU BZX584B36VQ	F2	Approximate 0.002	8000	80000	320000	7" reel



## BZX584B3V6Q THRU BZX584B36VQ

### ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

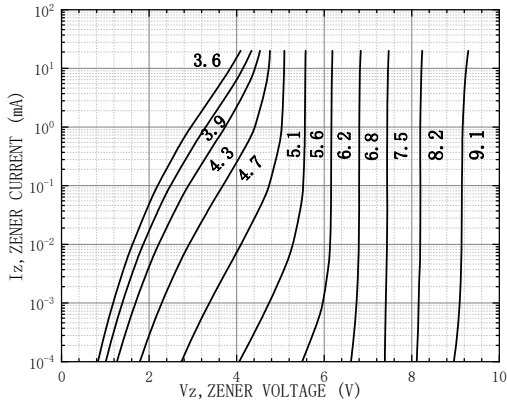
Type Number	Device Marking	V <sub>z</sub> at I <sub>z</sub> (V)			I <sub>z</sub>	Z <sub>z</sub> (Ω)		Z <sub>zk</sub> (Ω)		I <sub>R</sub> (μA)@V <sub>R</sub>		Typical Temperature Coefficient@ I <sub>zTC</sub> mV/°C		Test Current I <sub>zTC</sub>
		min.	typ.	max.	mA	I <sub>z</sub> (mA)	max.	I <sub>zk</sub> (mA)	max.	uA	V <sub>R</sub> (V)	Min	Max	mA
BZX584B3V6Q	45	3.53	3.6	3.67	5	5	90	1.0	600	5	1.0	-3.5	0	5
BZX584B3V9Q	+5	3.82	3.9	3.98	5	5	90	1.0	600	3	1.0	-3.5	0	5
BZX584B4V3Q	65	4.21	4.3	4.39	5	5	90	1.0	600	3	1.0	-3.5	0	5
BZX584B4V7Q	75	4.61	4.7	4.79	5	5	80	1.0	500	3	2.0	-3.5	0.2	5
BZX584B5V1Q	85	5.0	5.1	5.2	5	5	60	1.0	480	2	2.0	-2.7	1.2	5
BZX584B5V6Q	95	5.49	5.6	5.71	5	5	40	1.0	400	1	2.0	-2	2.5	5
BZX584B6V2Q	A5	6.08	6.2	6.32	5	5	10	1.0	150	3	4.0	0.4	3.7	5
BZX584B6V8Q	B5	6.66	6.8	6.94	5	5	15	1.0	80	2	4.0	1.2	4.5	5
BZX584B7V5Q	C5	7.35	7.5	7.65	5	5	15	1.0	80	1	5.0	2.5	5.3	5
BZX584B8V2Q	D5	8.04	8.2	8.36	5	5	15	1.0	80	0.7	5.0	3.2	6.2	5
BZX584B9V1Q	E5	8.92	9.1	9.28	5	5	15	1.0	100	0.5	6.0	3.8	7.0	5
BZX584B10VQ	F5	9.8	10	10.2	5	5	20	1.0	150	0.2	7.0	4.5	8.0	5
BZX584B11VQ	G5	10.78	11	11.22	5	5	20	1.0	150	0.1	8.0	5.4	9.0	5
BZX584B12VQ	H5	11.76	12	12.24	5	5	25	1.0	150	0.1	8.0	6.0	10.0	5
BZX584B13VQ	J5	12.74	13	13.3	5	5	30	1.0	170	0.1	8.0	7.0	11.0	5
BZX584B15VQ	K5	14.7	15	15.3	5	5	30	1.0	200	0.1	10.5	9.2	13.0	5
BZX584B16VQ	L5	15.68	16	16.3	5	5	40	1.0	200	0.1	11.2	10.4	14.0	5
BZX584B18VQ	M5	17.6	18	18.4	5	5	45	1.0	225	0.1	12.6	12.4	16.0	5
BZX584B20VQ	N5	19.6	20	20.4	5	5	55	1.0	225	0.1	14.0	14.4	18.0	5
BZX584B22VQ	P5	21.56	22	22.44	5	5	55	1.0	250	0.1	15.4	16.4	20.0	5
BZX584B24VQ	R5	23.52	24	24.5	5	5	70	1.0	250	0.1	16.8	18.4	22.0	5
BZX584B27VQ	S5	26.46	27	27.54	2	2	80	0.5	300	0.1	18.9	21.4	25.3	2
BZX584B30VQ	T5	29.4	30	30.6	2	2	80	0.5	300	0.1	21.0	24.4	29.4	2
BZX584B33VQ	U5	32.34	33	33.7	2	2	80	0.5	325	0.1	23.1	27.4	33.4	2
BZX584B36VQ	V5	35.28	36	36.72	2	2	90	0.5	350	0.1	25.2	30.4	37.4	2



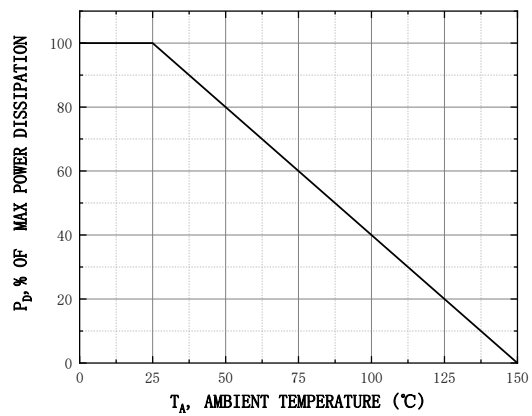
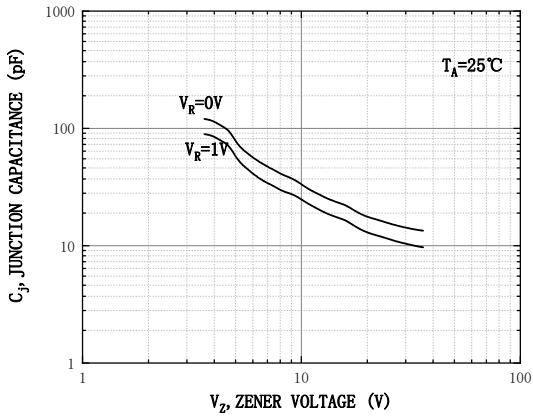
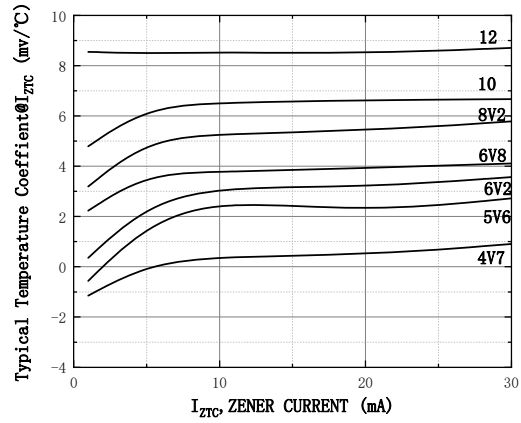
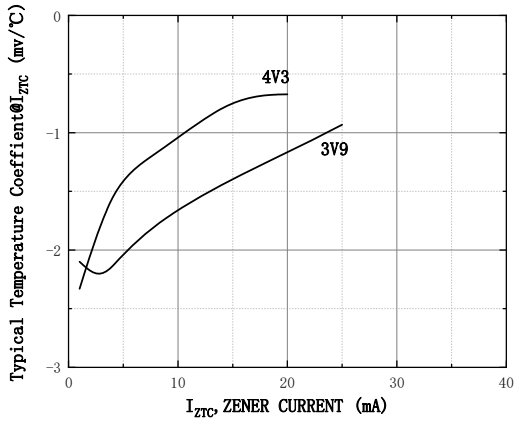
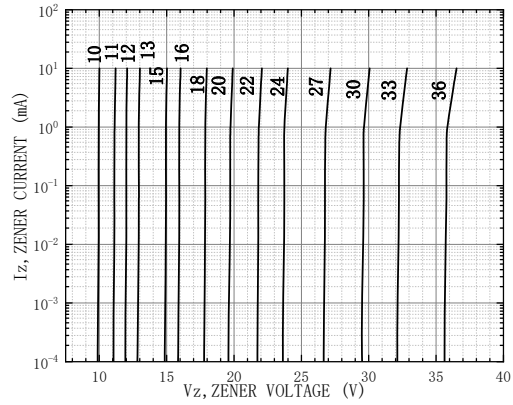
# BZX584B3V6Q THRU BZX584B36VQ

## ■ Characteristics (Typical)

ZENER BREAKDOWN CHARACTERISTICS

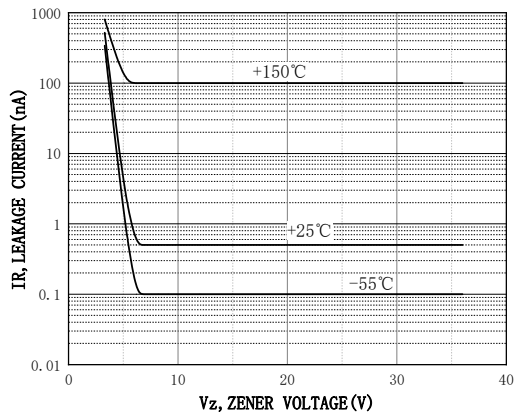


ZENER BREAKDOWN CHARACTERISTICS





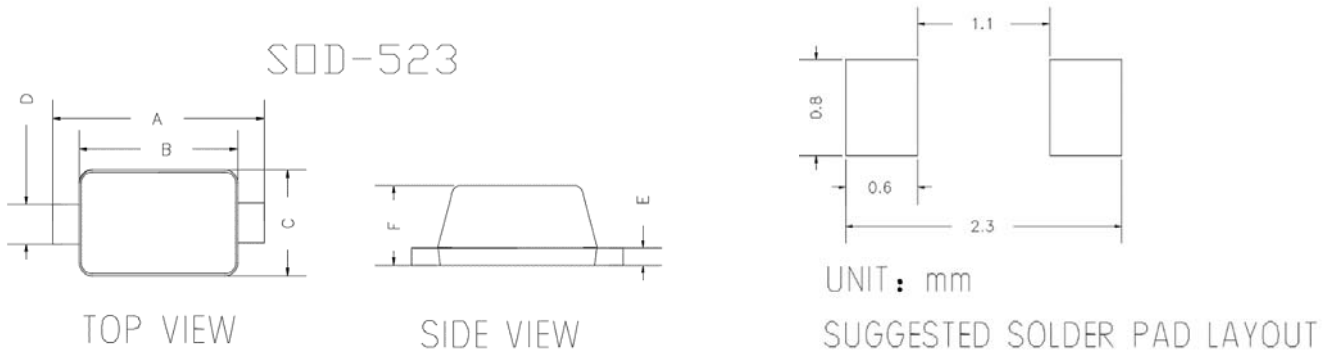
# BZX584B3V6Q THRU BZX584B36VQ





# BZX584B3V6Q THRU BZX584B36VQ

## ■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.020	0.028	0.500	0.700

## ■ Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. XX is Marking Code
4. Body color: Black



## BZX584B3V6Q THRU BZX584B36VQ

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