

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- Standard Vz Tolerance is ±2%
- Planar Die Construction
- Zener Voltages from 2.4V 39V
- · Ideally Suited for Automated Assembly Processes
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant t ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

Operating Junction Temperature Range: -55°C to +150°C

• Storage Temperature Range: -55°C to +150°C

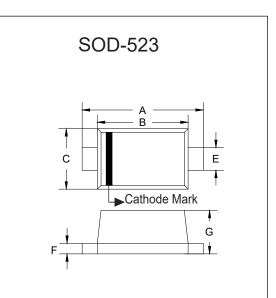
Thermal Resistance: 833°C/W Junction to Ambient

Parameter	Symbol	Rating	Conditions		
Power Dissipation	P_{D}	150mW	Note 2		
Maximum Forward Voltage	V _F	0.9V	I _F =10mA		

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

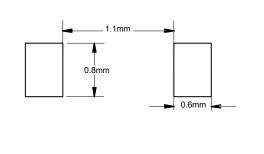
2. Valid provided that device terminals are kept at ambient temperature.

150 mWatt Zener Diodes 3.6 to 36 Volts



DIMENIOIONIO							
DIMENSIONS							
DIM	INCHES		M	M	NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.059	0.067	1.50	1.70			
В	0.043	0.051	1.10	1.30			
С	0.030	0.033	0.75	0.85			
E	0.010	0.014	0.25	0.35			
F	0.003	0.008	0.08	0.20			
G	0.020	0.026	0.50	0.65			

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Ze	Zener Voltage ⁽³⁾		Maximum Zener Impedance ⁽⁴⁾		Maximum Zener Impedance ⁽⁴⁾		Maximum Reverse Current		Typical Temperature Coefficent			Marking Code
		V _Z @ I _{ZT}		I _{ZT}	Z _{ZT}	I _{ZK}	Z_{ZK}	I _R	V_R	Min	Max.	I _{ZTC}	
	Min.(V)	Nom(V)	Max.(V)	mA	Ω	mA	Ω	Max.(µA)	V	m√	//°C	mA	
BZX584B3V6HE3	3.53	3.6	3.67	5	90	1.0	600	5	1.0	-3.5	0	5	2V5
BZX584B3V9HE3	3.82	3.9	3.98	5	90	1.0	600	3	1.0	-3.5	0	5	2V6
BZX584B4V3HE3	4.21	4.3	4.39	5	90	1.0	600	3	1.0	-3.5	0	5	2V7
BZX584B4V7HE3	4.61	4.7	4.79	5	80	1.0	500	3	2.0	-3.5	0.2	5	2Z1
BZX584B5V1HE3	5.00	5.1	5.20	5	60	1.0	480	2	2.0	-2.7	1.2	5	2Z2
BZX584B5V6HE3	5.49	5.6	5.71	5	40	1.0	400	1	2.0	-2.0	2.5	5	2Z3
BZX584B6V2HE3	6.08	6.2	6.32	5	10	1.0	150	3	4.0	0.4	3.7	5	2Z4
BZX584B6V8HE3	6.66	6.8	6.94	5	15	1.0	80	2	4.0	1.2	4.5	5	2Z5
BZX584B7V5HE3	7.35	7.5	7.65	5	15	1.0	80	1	5.0	2.5	5.3	5	2Z6
BZX584B8V2HE3	8.04	8.2	8.36	5	15	1.0	80	0.7	5.0	3.2	6.2	5	2Z7
BZX584B9V1HE3	8.92	9.1	9.28	5	15	1.0	100	0.5	6.0	3.8	7.0	5	2Z8
BZX584B10HE3	9.80	10	10.20	5	20	1.0	150	0.2	7.0	4.5	8.0	5	2Z9
BZX584B11HE3	10.78	11	11.22	5	20	1.0	150	0.1	8.0	5.4	9.0	5	2Y1
BZX584B12HE3	11.76	12	12.24	5	25	1.0	150	0.1	8.0	6.0	10.0	5	2Y2
BZX584B13HE3	12.74	13	13.26	5	30	1.0	170	0.1	8.0	7.0	11.0	5	2Y3
BZX584B15HE3	14.70	15	15.30	5	30	1.0	200	0.1	10.5	9.2	13.0	5	2Y4
BZX584B16HE3	15.68	16	16.32	5	40	1.0	200	0.1	11.2	10.4	14.0	5	2Y5
BZX584B18HE3	17.64	18	18.36	5	45	1.0	225	0.1	12.6	12.4	16.0	5	2Y6
BZX584B20HE3	19.60	20	20.40	5	55	1.0	225	0.1	14.0	14.4	18.0	5	2Y7
BZX584B22HE3	21.56	22	22.44	5	55	1.0	250	0.1	15.4	16.4	20.0	5	2Y8
BZX584B24HE3	23.52	24	24.48	5	70	1.0	250	0.1	16.8	18.4	22.0	5	2Y9
BZX584B27HE3	26.46	27	27.54	2	80	0.5	300	0.1	18.9	21.4	25.3	5	S5
BZX584B30HE3	29.40	30	30.60	2	80	0.5	300	0.1	21.0	24.4	29.4	5	2X2
BZX584B33HE3	32.34	33	33.66	2	80	0.5	325	0.1	23.1	27.4	33.4	5	2X3
BZX584B36HE3	35.28	36	36.72	2	90	0.5	350	0.1	25.2	30.4	37.4	5	2X4

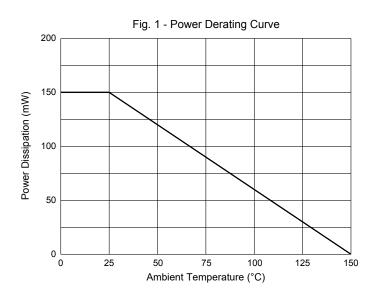
Note: 3.Tested with pulses, period = 5ms, pulse width=300us

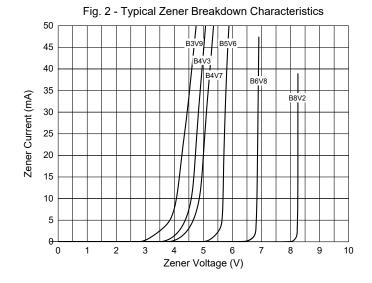
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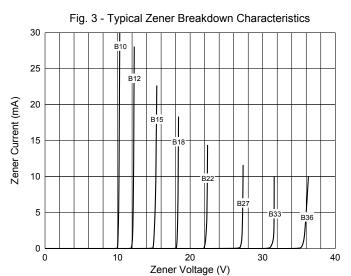
^{4.} f=1KHz



Curve Characteristics







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Ordering Information

Device	Packing			
Part Number-TP	Tape&Reel:8Kpcs/Reel			

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