

Features

- · Ideally Suited fou Automated Assembly Processes
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

150 mW Zener Diode 3.6 to 36 Volts

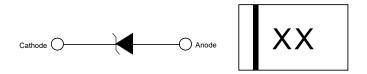
Maximum Ratings

- 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.

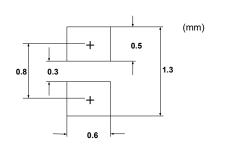
Internal Structure and Marking Code



Cathode Band Cathode Band Anode

DIMENSIONS						
DIM	INC	HES	M	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.037	0.041	0.95	1.05		
В	0.022	0.026	0.55	0.65		
С	0.016	0.020	0.40	0.50		
C1		0.002		0.05		
D	0.001	0.003	0.02	0.08		
Е	0.026BSC		0.65	BSC		
F	0.008	0.012	0.20	0.30		
G	0.018	0.022	0.45	0.55		

Suggested Solder Pad Layout



^{2.} Device Mounted on FR-4 PCB with Minimum Recommended Pad Layout.



Electrical Characteristics @ 25°C Unless Otherwise Specified

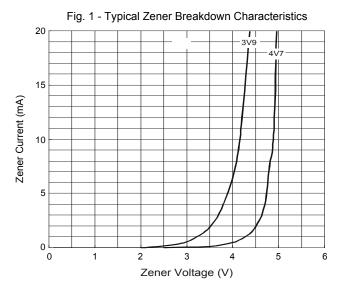
MCC Zener Voltage ⁽³⁾ Part Number		Maximum Zener Impedance ⁽⁴⁾		Maximum Reverse Current I _R @ V _R		Typical Temperature Coefficent @ I _{ZTC}		Test Current	Marking Code				
		V _Z @ I _{ZT}		I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I_{ZK}	I _R	V_R	mV/°C		I _{ZTC}	
	Min.(V)	Nom(V)	Max.(V)	mΑ		Ω	mA	μΑ	V	Min	Max.	mA	
BZT52B3V6L3P	3.53	3.6	3.67	5	95	600	1.0	15	1.0	-3.5	0	5	2W4
BZT52B3V9L3P	3.82	3.9	3.98	5	95	600	1.0	10	1.0	-3.5	0	5	2W5
BZT52B4V3L3P	4.21	4.3	4.39	5	95	600	1.0	5	1.0	-3.5	0	5	2W6
BZT52B4V7L3P	4.61	4.7	4.79	5	78	500	1.0	1	1.0	-3.5	0.2	5	2W7
BZT52B5V1L3P	5.0	5.1	5.2	5	60	480	1.0	0.1	8.0	-2.7	1.2	5	2W8
BZT52B5V6L3P	5.49	5.6	5.71	5	40	400	1.0	0.1	1.0	-2.0	2.5	5	2W9
BZT52B6V2L3P	6.08	6.2	6.32	5	10	150	1.0	0.1	2.0	0.4	3.7	5	2WA
BZT52B6V8L3P	6.66	6.8	6.94	5	8	80	1.0	0.1	3.0	1.2	4.5	5	2WB
BZT52B7V5L3P	7.35	7.5	7.65	5	7	80	1.0	0.1	5.0	2.5	5.3	5	2WC
BZT52B8V2L3P	8.04	8.2	8.36	5	7	80	1.0	0.1	6.0	3.2	6.2	5	2WD
BZT52B9V1L3P	8.92	9.1	9.28	5	10	100	1.0	0.1	6.8	3.8	7.0	5	2WE
BZT52B10L3P	9.8	10	10.2	5	15	150	1.0	0.1	7.5	4.5	8.0	5	2WF
BZT52B11L3P	10.78	11	11.22	5	20	150	1.0	0.1	8.2	5.4	9.0	5	2WG
BZT52B12L3P	11.76	12	12.24	5	20	150	1.0	0.1	9.0	6.0	10.0	5	2WH
BZT52B13L3P	12.74	13	13.26	5	26	170	1.0	0.1	9.7	7.0	11.0	5	2WI
BZT52B15L3P	14.7	15	15.3	5	30	200	1.0	0.1	11.0	9.2	13.0	5	2WJ
BZT52B16L3P	15.68	16	16.32	5	40	200	1.0	0.1	12	10.4	14.0	5	2WK
BZT52B18L3P	17.64	18	18.36	5	50	225	1.0	0.1	14.0	12.4	16.0	5	2WL
BZT52B20L3P	19.6	20	20.4	5	55	225	1.0	0.1	15.0	14.4	18.0	5	2WM
BZT52B22L3P	21.56	22	22.44	5	55	250	1.0	0.1	17.0	16.4	20.0	5	2WN
BZT52B24L3P	23.52	24	24.48	5	70	250	1.0	0.1	18.0	18.4	22.0	5	2WO
BZT52B27L3P	26.46	27	27.54	5	80	300	1.0	0.1	20.0	36.5	45.5	5	2WP
BZT52B30L3P	29.4	30	30.6	5	80	300	1.0	0.1	22	36.5	45.5	5	2WQ
BZT52B33L3P	32.34	33	33.66	5	80	325	1.0	0.1	24.0	36.5	45.5	5	2WR
BZT52B36L3P	35.28	36	36.72	5	90	350	1.0	0.1	27.0	36.5	45.5	5	2WS

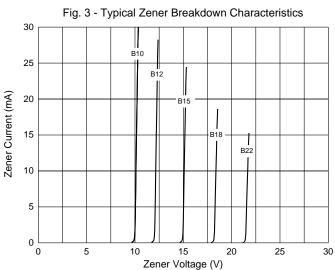
Note: 3. Short Duration Pulse Test Used to Minimize Self-heating Effect. 4. f=1KHz

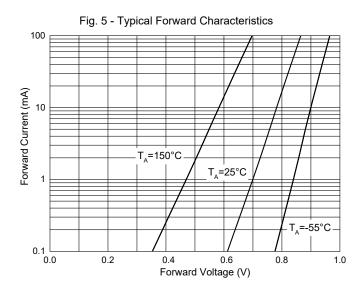
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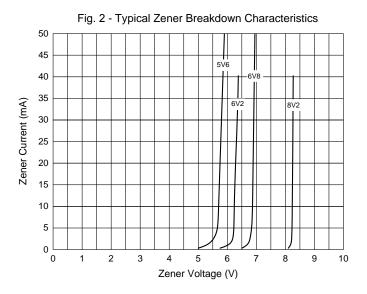


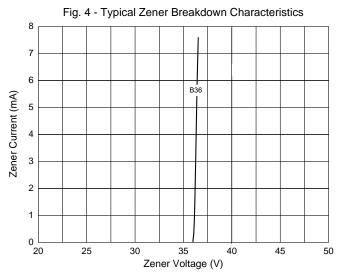
Curve Characteristics

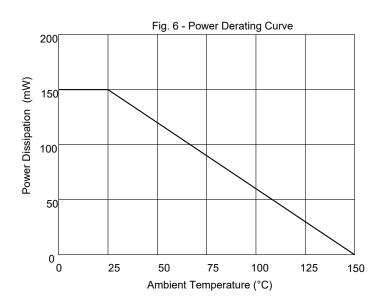














Ordering Information

Device	Packing				
Part Number-TP	Tape&Reel:10Kpcs/Reel				

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