Features

- Planar Die Construction
- Ideally Suited for Automated Assembly Processes
- General Purpose Medium Current
- Halogen Free. “Green” Device (Note 1)
- 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)

200 mW
Zener Diode
2.4 to 39 Volts

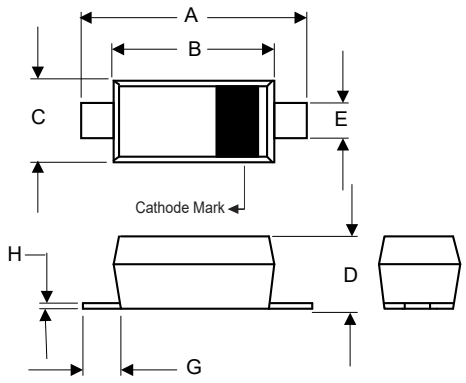
Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance :625°C/W Junction to Ambient

Parameter	Symbol	Rating	Conditions
Power Dissipation	P_D	200mW	
Maximum Forward Voltage	V_F	0.9V	I_F=10mA

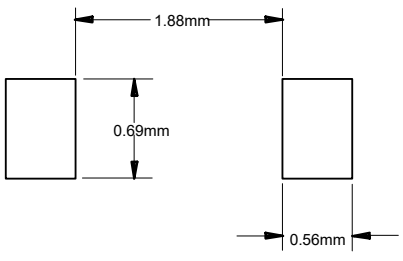
Note: 1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

SOD-323FL



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.078	1.60	1.95	
C	0.045	0.053	1.15	1.35	
D	0.024	0.035	0.60	0.90	
E	0.010	0.016	0.25	0.40	
G	0.016		0.40		TYP.
H	0.002	0.008	0.05	0.21	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Zener Voltage			Maximum Zener Impedance (2)		Maximum Zener Impedance (2)		Reverse Current		Typical Temperature Coefficent @ I_{ZTC}		Marking Code
	V_Z @ I_{ZT}			I_{ZT}	Z_{ZT}	I_{ZK}	Z_{ZK}	I_R(Max)	V_R	Min	Max.	
	Min.(V)	Nom(V)	Max.(V)	mA	Ω	mA	Ω	μA	V	mV/°C		
BZT52C2V4LS	2.28	2.4	2.56	5	100	1.0	600	50	1.0	-3.5	0	2v4
BZT52C2V7LS	2.5	2.7	2.9	5	100	1.0	600	20	1.0	-3.5	0	2v7
BZT52C3V0LS	2.8	3.0	3.2	5	95	1.0	600	10	1.0	-3.5	0	3v0
BZT52C3V3LS	3.1	3.3	3.5	5	95	1.0	600	5	1.0	-3.5	0	3v3
BZT52C3V6LS	3.4	3.6	3.8	5	90	1.0	600	5	1.0	-3.5	0	3v6
BZT52C3V9LS	3.7	3.9	4.1	5	90	1.0	600	3	1.0	-3.5	0	3v9
BZT52C4V3LS	4.0	4.3	4.6	5	90	1.0	600	3	1.0	-3.5	0	4v3
BZT52C4V7LS	4.4	4.7	5.0	5	80	1.0	500	3	2.0	-3.5	0.2	4v7
BZT52C5V1LS	4.8	5.1	5.4	5	60	1.0	480	2	2.0	-2.7	1.2	5v1
BZT52C5V6LS	5.2	5.6	6.0	5	40	1.0	400	1	2.0	-2.0	2.5	5v6
BZT52C6V2LS	5.8	6.2	6.6	5	10	1.0	150	3	4.0	0.4	3.7	6v2
BZT52C6V8LS	6.4	6.8	7.2	5	15	1.0	80	2	4.0	1.2	4.5	6v8
BZT52C7V5LS	7.0	7.5	7.9	5	15	1.0	80	1	5.0	2.5	5.3	7v5
BZT52C8V2LS	7.7	8.2	8.7	5	15	1.0	80	0.7	5.0	3.2	6.2	8v2
BZT52C9V1LS	8.5	9.1	9.6	5	15	1.0	100	0.5	6.0	3.8	7.0	9v1
BZT52C10LS	9.4	10	10.6	5	20	1.0	150	0.2	7.0	4.5	8.0	10
BZT52C11LS	10.4	11	11.6	5	20	1.0	150	0.1	8.0	5.4	9.0	11
BZT52C12LS	11.4	12	12.7	5	25	1.0	150	0.1	8.0	6.0	10.0	12
BZT52C13LS	12.4	13	14.1	5	30	1.0	170	0.1	8.0	7.0	11.0	13
BZT52C15LS	13.8	15	15.6	5	30	1.0	200	0.1	10.5	9.2	13.0	15
BZT52C16LS	15.3	16	17.1	5	40	1.0	200	0.1	11.2	10.4	14.0	16
BZT52C18LS	16.8	18	19.1	5	45	1.0	225	0.1	12.6	12.4	16.0	18
BZT52C20LS	18.8	20	21.2	5	55	1.0	225	0.1	14.0	14.4	18.0	20
BZT52C22LS	20.8	22	23.3	5	55	1.0	250	0.1	15.4	16.4	20.0	22
BZT52C24LS	22.8	24	25.6	5	70	1.0	250	0.1	16.8	18.4	22.0	24
BZT52C27LS	25.1	27	28.9	2	80	0.5	300	0.1	18.9	21.4	25.3	27
BZT52C30LS	28	30	32	2	80	0.5	300	0.1	21.0	24.4	29.4	30
BZT52C33LS	31	33	35	2	80	0.5	325	0.1	23.1	27.4	33.4	33
BZT52C36LS	34	36	38	2	90	0.5	350	0.1	25.2	30.4	37.4	36
BZT52C39LS	37	39	41	2	130	0.5	350	0.1	27.3	33.4	41.2	39

Note : 2. f=1KHz

Curve Characteristics

Fig. 1 - Power Derating Curve

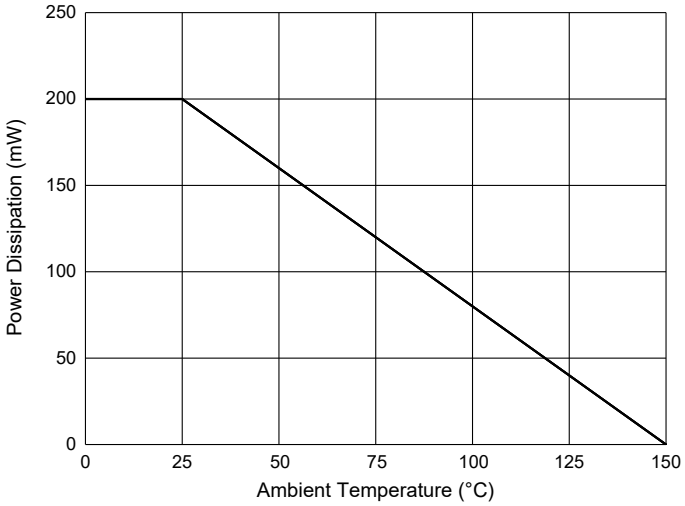


Fig. 2 - Typical Zener Breakdown Characteristics

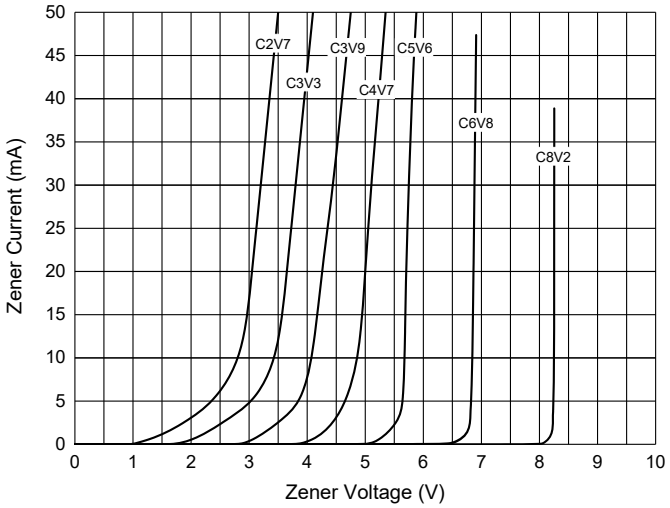
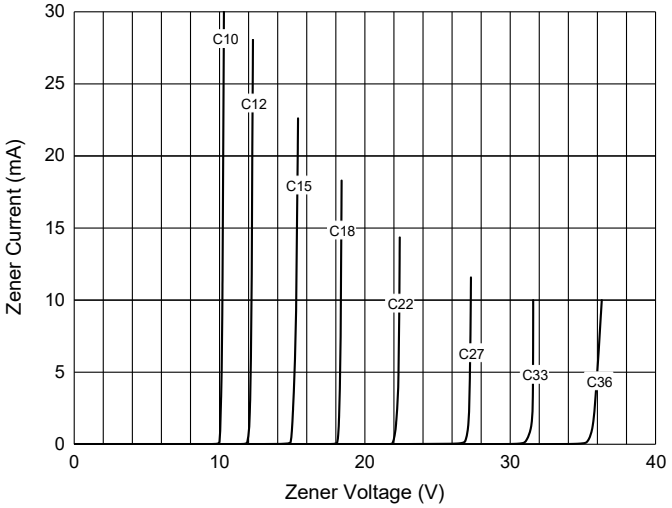


Fig. 3 - Typical Zener Breakdown Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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