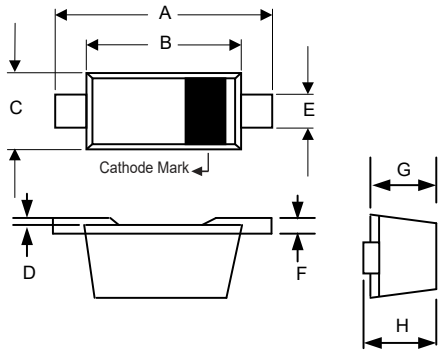
Features

- Planar Die Construction
- Zener Voltages from 2.4V - 39V
- Ideally Suited for 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 t ("P" Suffix Designates RoHS Compliant. See Ordering Information)

150 mWatt Zener Diodes 2.4 to 39 Volts

SOD-723



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.051	0.059	1.30	1.50	
B	0.035	0.043	0.90	1.10	
C	0.022	0.026	0.55	0.65	
D	0.001	0.003	0.01	0.07	
E	0.010	0.014	0.25	0.35	
F	0.003	0.006	0.08	0.15	
G	0.020	0.023	0.52	0.58	
H	0.021	0.026	0.53	0.65	

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.

Note: 2. Valid Provided That Device Terminals are Kept at Ambient Temperature.

Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Zener Voltage[3]			Maximum Zener Impedance[4]		Maximum Zener Impedance[4]		Maximum Reverse Current		Typical Temperature Coefficent @ I_{ZT}		Marking Code
	V_Z @ I_{ZT}			I_{ZT}	Z_{ZT}	I_{ZK}	Z_{ZK}	I_R	V_R	Min	Max.	
	Min.(V)	Nom(V)	Max.(V)	mA	Ω	mA	Ω	Max.(μA)	V	mV/°C		
BZX784C2V4	2.2	2.4	2.6	5	100	1.0	600	50	1.0	-3.5	0	Z1
BZX784C2V7	2.5	2.7	2.9	5	100	1.0	600	20	1.0	-3.5	0	Z2
BZX784C3V0	2.8	3.0	3.2	5	95	1.0	600	10	1.0	-3.5	0	Z3
BZX784C3V3	3.1	3.3	3.5	5	95	1.0	600	5	1.0	-3.5	0	Z4
BZX784C3V6	3.4	3.6	3.8	5	90	1.0	600	5	1.0	-3.5	0	Z5
BZX784C3V9	3.7	3.9	4.1	5	90	1.0	600	3	1.0	-3.5	0	Z6
BZX784C4V3	4.0	4.3	4.6	5	90	1.0	600	3	1.0	-3.5	0	Z7
BZX784C4V7	4.4	4.7	5.0	5	80	1.0	500	3	2.0	-3.5	0.2	X1
BZX784C5V1	4.8	5.1	5.4	5	60	1.0	480	2	2.0	-2.7	1.2	X2
BZX784C5V6	5.2	5.6	6.0	5	40	1.0	400	1	2.0	-2.0	2.5	X3
BZX784C6V2	5.8	6.2	6.6	5	10	1.0	150	3	4.0	0.4	3.7	X4
BZX784C6V8	6.4	6.8	7.2	5	15	1.0	80	2	4.0	1.2	4.5	X5
BZX784C7V5	7.0	7.5	7.9	5	15	1.0	80	1	5.0	2.5	5.3	X6
BZX784C8V2	7.7	8.2	8.7	5	15	1.0	80	0.7	5.0	3.2	6.2	X7
BZX784C9V1	8.5	9.1	9.6	5	15	1.0	100	0.5	6.0	3.8	7.0	X8
BZX784C10	9.4	10	10.6	5	20	1.0	150	0.2	7.0	4.5	8.0	X9
BZX784C11	10.4	11	11.6	5	20	1.0	150	0.1	8.0	5.4	9.0	W1
BZX784C12	11.4	12	12.7	5	25	1.0	150	0.1	8.0	6.0	10.0	W2
BZX784C13	12.4	13	14.1	5	30	1.0	170	0.1	8.0	7.0	11.0	W3
BZX784C15	13.8	15	15.6	5	30	1.0	200	0.1	10.5	9.2	13.0	W4
BZX784C16	15.3	16	17.1	5	40	1.0	200	0.1	11.2	10.4	14.0	W5
BZX784C18	16.8	18	19.1	5	45	1.0	225	0.1	12.6	12.4	16.0	W6
BZX784C20	18.8	20	21.2	5	55	1.0	225	0.1	14.0	14.4	18.0	W7
BZX784C22	20.8	22	23.3	5	55	1.0	250	0.1	15.4	16.4	20.0	W8
BZX784C24	22.8	24	25.6	5	70	1.0	250	0.1	16.8	18.4	22.0	W9
BZX784C27	25.1	27	28.9	2	80	0.5	300	0.1	18.9	21.4	25.3	Y1
BZX784C30	28.0	30	32.0	2	80	0.5	300	0.1	21.0	24.4	29.4	Y2
BZX784C33	31.0	33	35.0	2	80	0.5	325	0.1	23.1	27.4	33.4	Y3
BZX784C36	34.0	36	38.0	2	90	0.5	350	0.1	25.2	30.4	37.4	Y4
BZX784C39	37.0	39	41.0	2	130	0.5	350	0.1	27.3	33.4	41.2	Y5

Note : 3. Tested with pulses, period = 5ms, pulse width=300us
4. f=1KHz.

Curve Characteristics

Fig. 1 - Power Derating Curve

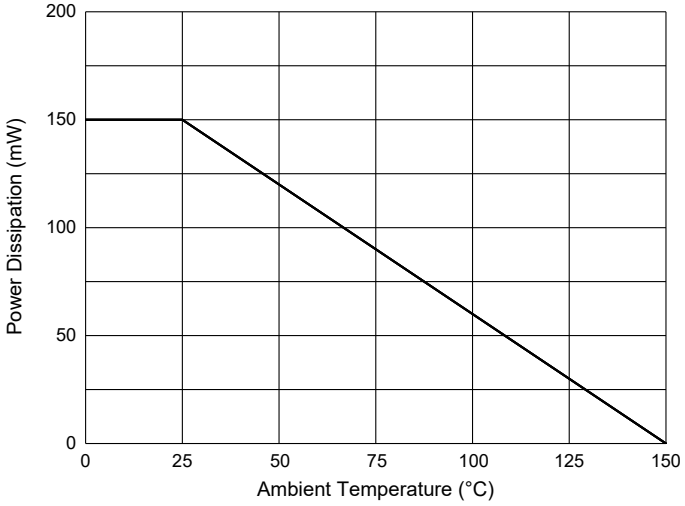


Fig. 2 - Typical Zener Breakdown Characteristics

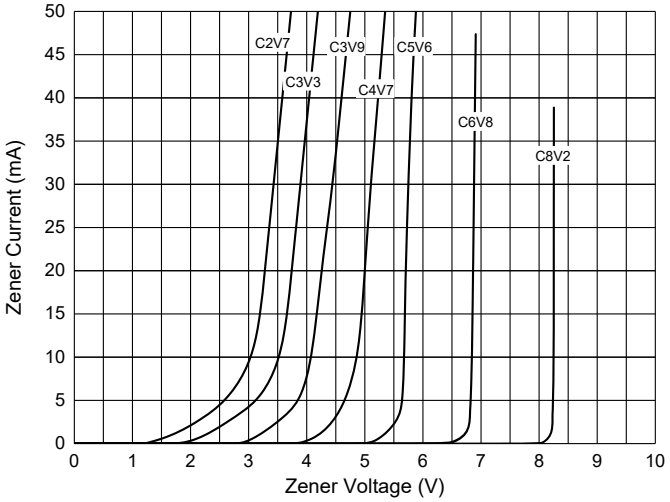
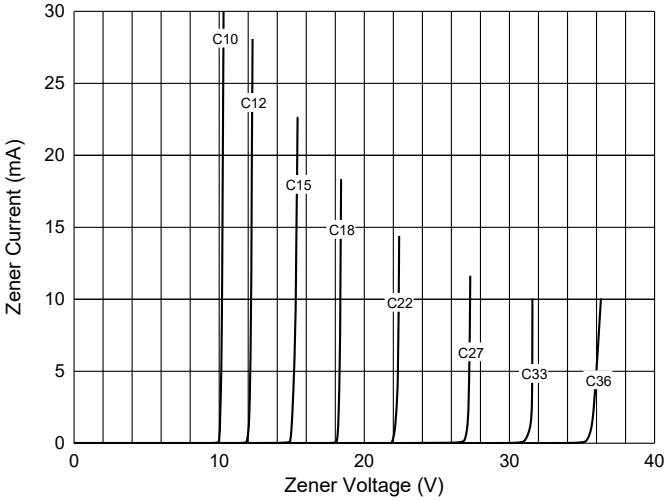


Fig. 3 - Typical Zener Breakdown Characteristics



Ordering Information

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