

Features

- Dual Zeners in Common Anode Configuration
- ΔV_z for Both Diodes in One Case is $\leq 5\%$.
- Ideally Suited for Automated Assembly Processes
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to $+150^{\circ}\text{C}$
- Storage Temperature Range: -55°C to $+150^{\circ}\text{C}$
- Thermal Resistance : 625°C/W Junction to Ambient(Note 2)

Parameter	Symbol	Rating	Conditions
Power Dissipation	P_D	200mW	
Maximum Forward Voltage	V_F	0.9V	$I_F=10\text{mA}$

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

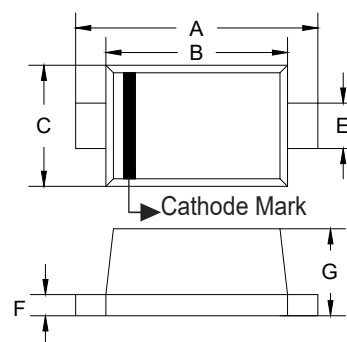
2. Part mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code



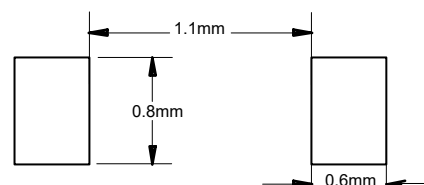
**200 mW
Zener Diode
2 to 47 Volts**

SOD-523



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.059	0.067	1.50	1.70	
B	0.043	0.051	1.10	1.30	
C	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	Zener Voltage ⁽²⁾	Maximum Zener Impedance ⁽³⁾		Maximum Zener Impedance ⁽³⁾		Min reverse Voltage ⁽²⁾		Maximum Junction Capacitance ⁽⁴⁾	Marking Code
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	I_R	V_R	C_J	
	V	mA	Ω	Ω	mA	μA	V	pF	
BZX584C2V0L	1.9-2.1	5	100	600	1	90	1.0	/	L1.
BZX584C2V2L	2.09-2.31	5	100	600	1	90	1.0	/	L2.
BZX584C2V4L	2.28-2.52	5	85	600	1	50	1.0	/	L3.
BZX584C2V7L	2.57-2.84	5	85	600	1	10	1.0	/	LT1.
BZX584C3V0L	2.85-3.15	5	85	600	1	4	1.0	/	LT2.
BZX584C3V3L	3.14-3.47	5	85	600	1	2	1.0	/	LT3.
BZX584C3V6L	3.42-3.78	5	85	600	1	2	1.0	/	LT4.
BZX584C3V9L	3.71-4.10	5	85	600	1	2	1.0	/	LT5.
BZX584C4V3L	4.09-4.52	5	80	600	1	1	1.0	/	LT6.
BZX584C4V7L	4.47-4.94	5	70	500	1	0.5	1.0	/	LT7.
BZX584C5V1L	4.85-5.36	5	50	480	1	0.1	1.0	/	LT8.
BZX584C5V6L	5.32-5.88	5	30	400	1	0.1	1.0	25	LT9.
BZX584C6V2L	5.89-6.51	5	10	150	1	0.1	2.0	25	L09.
BZX584C6V8L	6.46-7.14	5	8	80	1	0.1	3.0	25	L10.
BZX584C7V5L	7.13-7.88	5	7	50	1	0.1	5.0	25	L11.
BZX584C8V2L	7.79-8.61	5	7	50	1	0.1	6.1	25	L13.
BZX584C9V1L	8.65-9.56	5	10	50	1	0.1	6.8	25	L14.
BZX584C10L	9.50-10.50	5	15	70	1	0.1	7.5	25	L15.
BZX584C11L	10.45-11.55	5	20	70	1	0.1	8.2	25	L16.
BZX584C12L	11.40-12.60	5	20	90	1	0.1	9.0	25	L17.
BZX584C13L	12.40-13.65	5	26	110	1	0.1	9.7	25	L18.
BZX584C15L	14.25-15.60	5	30	110	1	0.1	11.0	25	L19.
BZX584C16L	15.30-16.80	5	40	170	1	0.1	12.0	25	L20.
BZX584C18L	17.10-18.90	5	45	170	1	0.1	14.0	25	L21.
BZX584C20L	19.00-21.00	5	55	220	1	0.1	15.0	25	L22.
BZX584C22L	20.90-23.10	5	55	220	1	0.1	17.0	25	L23.
BZX584C24L	22.80-25.20	5	70	220	1	0.1	18.0	25	L24.
BZX584C27L	25.65-28.38	5	80	220	1	0.1	20.0	25	L25.
BZX584C30L	28.50-31.50	5	80	220	1	0.1	22.0	25	L26.
BZX584C33L	31.35-34.65	5	80	220	1	0.1	24.0	25	L27.
BZX584C36L	34.20-37.80	5	80	220	1	0.1	27.0	25	L28.
BZX584C39L	37.05-40.95	5	90	500	1	0.1	29.0	25	L29.
BZX584C43L	40.85-45.15	5	90	600	1	0.1	32.0	25	L30.
BZX584C47L	44.65-49.35	5	110	700	1	0.1	35.0	25	L31.

Note :

2. Short duration test pulse used to minimize self-heating effect.
3. $f=1KHz$.
4. $f=1MHz, V_R=5V$

Curve Characteristics

Fig. 1 - Typical Zener Breakdown Characteristics

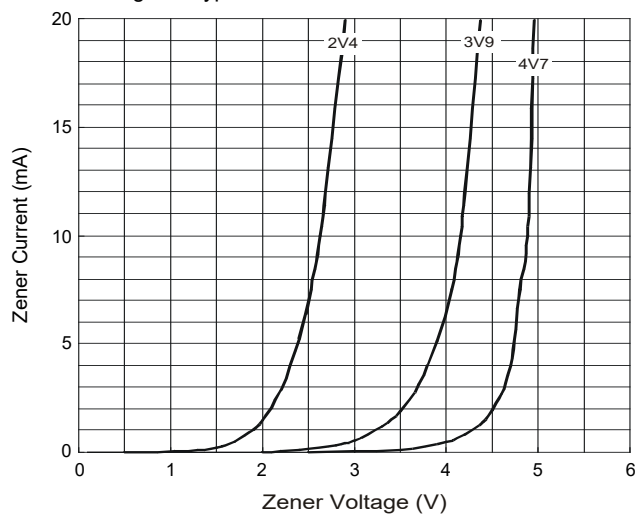


Fig. 2 - Typical Zener Breakdown Characteristics

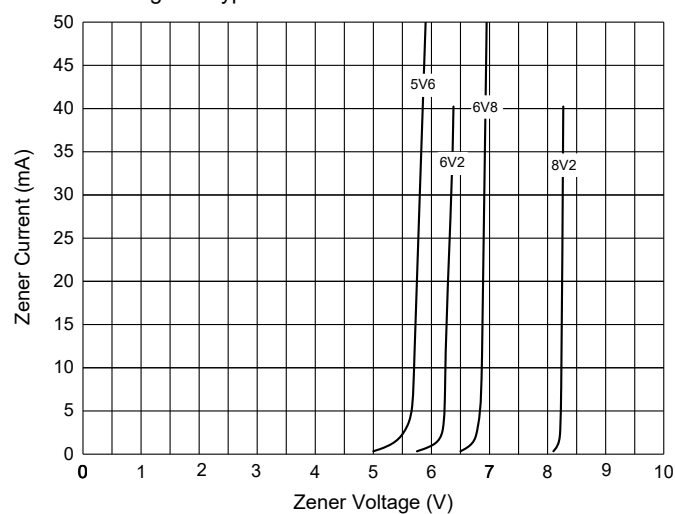


Fig. 3 - Typical Zener Breakdown Characteristics

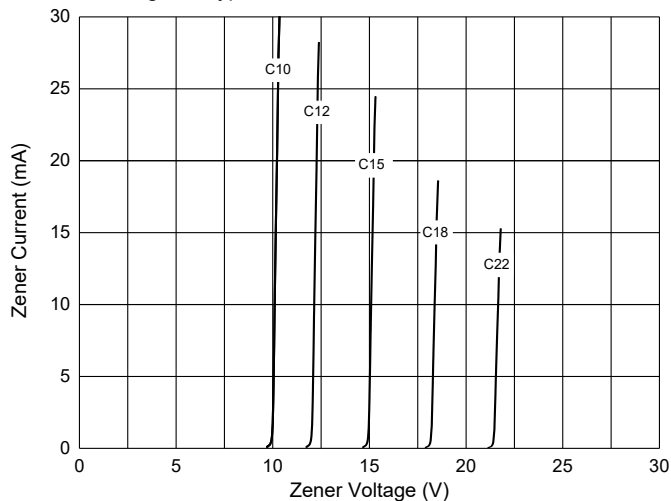


Fig. 4 - Typical Zener Breakdown Characteristics

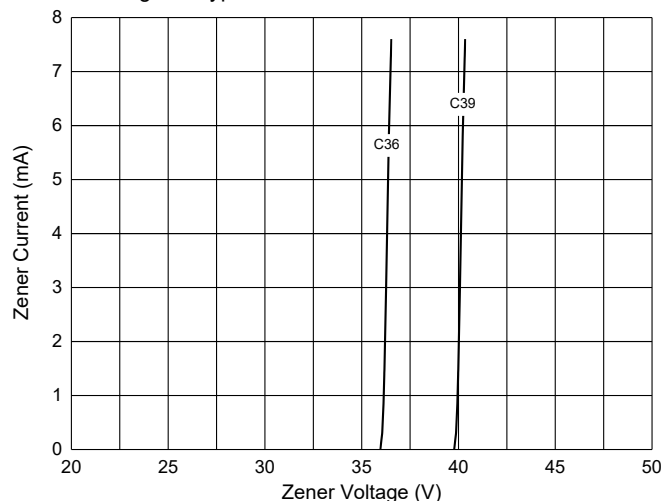


Fig. 5 - Typical Forward Characteristics

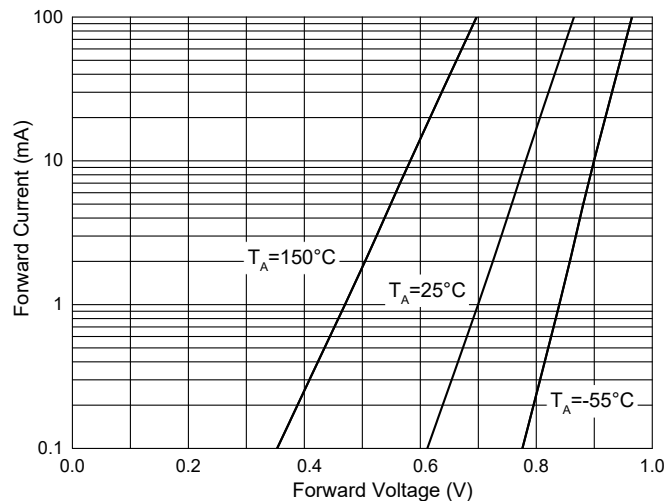
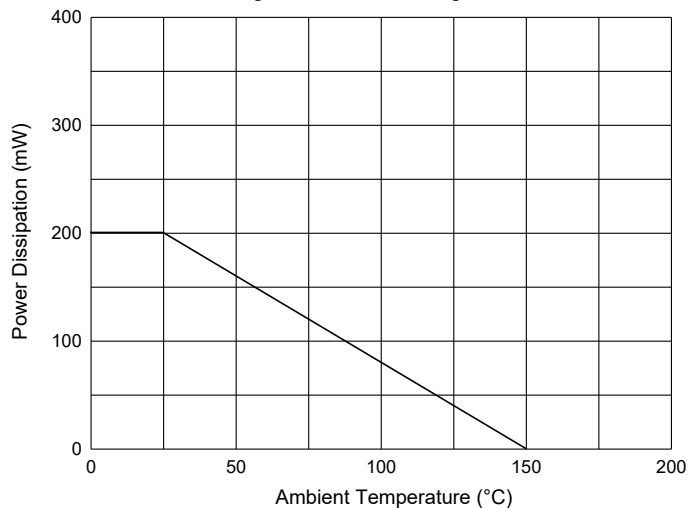


Fig. 6 - Power Derating Curve



Ordering Information

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

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