



**BZT52C2V7L3P
 THRU
 BZT52C39L3P**

**100 mW
 Zener Diode
 2.7 to 39 Volts**

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Ideally Suited for Automated Assembly Processes
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Absolute Maximum Ratings

Symbol	Rating	Rating	Unit
P _D	Power dissipation	100	mW
T _J	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

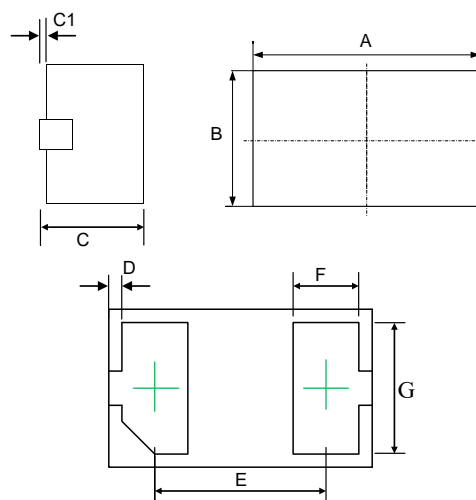
Absolute Maximum Ratings

Symbol	Rating	Rating	Unit
R _{thJA}	Thermal Resistance Junction to Ambient	1250	°C/W

Electrical Characteristics

Symbol	Rating	Rating	Unit
V _F	Maximum Forward Voltage (I _F =10mA _{dc})	0.9	V

DFN1006-2L



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	0.037	0.041	0.95	1.05	
B	0.022	0.026	0.55	0.65	
C	0.016	0.020	0.40	0.50	
C1	---	0.002	---	0.05	
D	0.001	0.003	0.02	0.08	
E	0.026BSC		0.65BSC		
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	

ELECTRICAL CHARACTERISTICS @25°C

Type Number	Marking Code	ZENER VOLTAGE ⁽¹⁾				Maximum Zener Impedance ⁽²⁾			Maximum Reverse Current I_R (Max) @ V_R		Typical Temperature Coefficient @ I_{ZTC} mV/°C		Test Current I_{ZTC} mA
		$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	I_R	V_R	Min	Max.	
		Min.	Nom	Max.	mA	Ω	mA	μA	V				
BZT52C2V7L3P	W1	2.5	2.7	2.9	5	100	600	1.0	20	1.0	-3.5	0	5
BZT52C3V0L3P	W2	2.8	3.0	3.2	5	95	600	1.0	10	1.0	-3.5	0	5
BZT52C3V3L3P	W3	3.1	3.3	3.5	5	95	600	1.0	5	1.0	-3.5	0	5
BZT52C3V6L3P	W4	3.4	3.6	3.8	5	90	600	1.0	5	1.0	-3.5	0	5
BZT52C3V9L3P	W5	3.7	3.9	4.1	5	90	600	1.0	3	1.0	-3.5	0	5
BZT52C4V3L3P	W6	4.0	4.3	4.6	5	90	600	1.0	3	1.0	-3.5	0	5
BZT52C4V7L3P	W7	4.4	4.7	5.0	5	80	500	1.0	3	2.0	-3.5	0.2	5
BZT52C5V1L3P	9Y	4.8	5.1	5.4	5	60	480	1.0	2	2.0	-2.7	1.2	5
BZT52C5V6L3P	9A	5.2	5.6	6.0	5	40	400	1.0	1	2.0	-2.0	2.5	5
BZT52C6V2L3P	9B	5.8	6.2	6.6	5	10	150	1.0	3	4.0	0.4	3.7	5
BZT52C6V8L3P	9C	6.4	6.8	7.2	5	15	80	1.0	2	4.0	1.2	4.5	5
BZT52C7V5L3P	9D	7.0	7.5	7.9	5	15	80	1.0	1	5.0	2.5	5.3	5
BZT52C8V2L3P	9E	7.7	8.2	8.7	5	15	80	1.0	0.7	5.0	3.2	6.2	5
BZT52C9V1L3P	9F	8.5	9.1	9.6	5	15	100	1.0	0.5	6.0	3.8	7.0	5
BZT52C10L3P	9G	9.4	10	10.6	5	20	150	1.0	0.2	7.0	4.5	8.0	5
BZT52C11L3P	9H	10.4	11	11.6	5	20	150	1.0	0.1	8.0	5.4	9.0	5
BZT52C12L3P	9J	11.4	12	12.7	5	25	150	1.0	0.1	8.0	6.0	10.0	5
BZT52C13L3P	9K	12.4	13	14.1	5	30	170	1.0	0.1	8.0	7.0	11.0	5
BZT52C15L3P	9L	13.8	15	15.6	5	30	200	1.0	0.1	10.5	9.2	13.0	5
BZT52C16L3P	9M	15.3	16	17.1	5	40	200	1.0	0.1	11.2	10.4	14.0	5
BZT52C18L3P	9N	16.8	18	19.1	5	45	225	1.0	0.1	12.6	12.4	16.0	5
BZT52C20L3P	9P	18.8	20	21.2	5	55	225	1.0	0.1	14.0	14.4	18.0	5
BZT52C22L3P	9R	20.8	22	23.3	5	55	250	1.0	0.1	15.4	16.4	20.0	5
BZT52C24L3P	9S	22.8	24	25.6	5	70	250	1.0	0.1	16.8	18.4	22.0	5
BZT52C36L3P	9W	34	36	38	2	90	350	0.5	0.1	25.2	36.5	45.5	5
BZT52C39L3P	9X	37	39	41	2	130	350	0.5	0.1	27.3	36.8	49.8	5

(1) Short duration pulse test used to minimize self-heating effect.

(2) f=1KHz

Typical characteristics

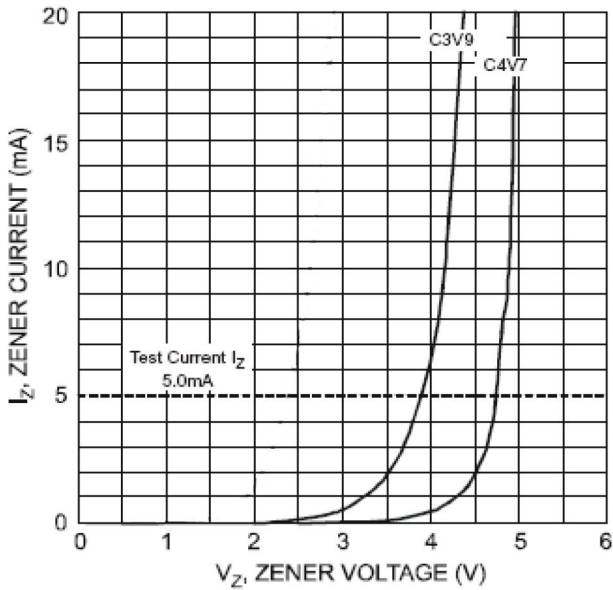


Fig. 1 Typical Zener Breakdown Characteristics

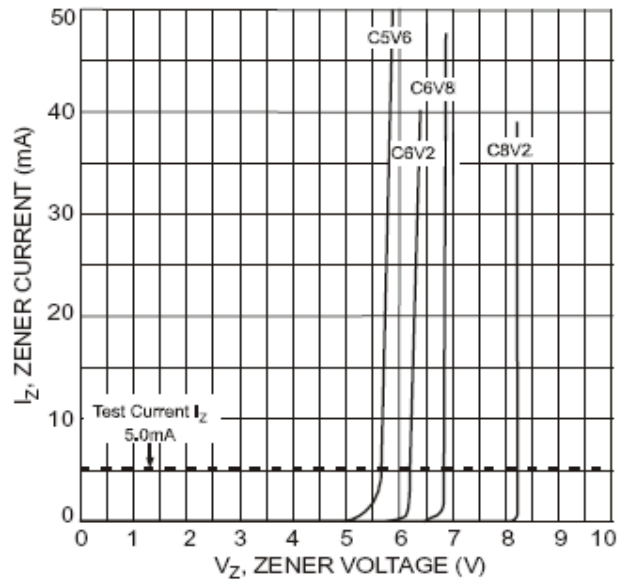


Fig. 2 Typical Zener Breakdown Characteristics

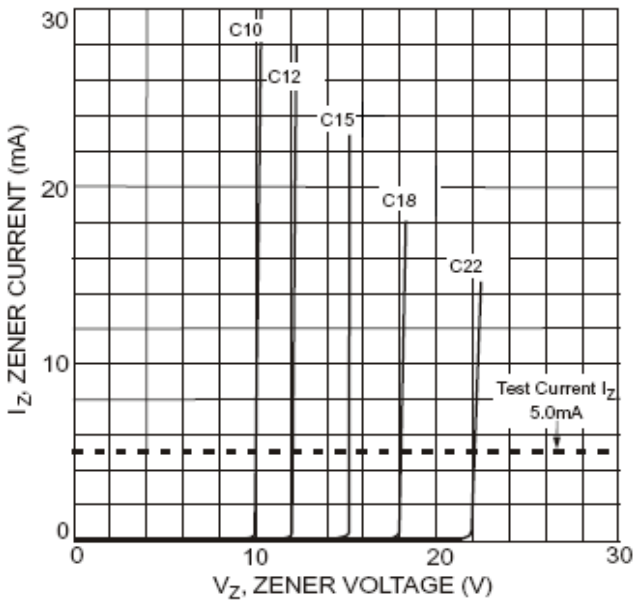


Fig. 3 Typical Zener Breakdown Characteristics

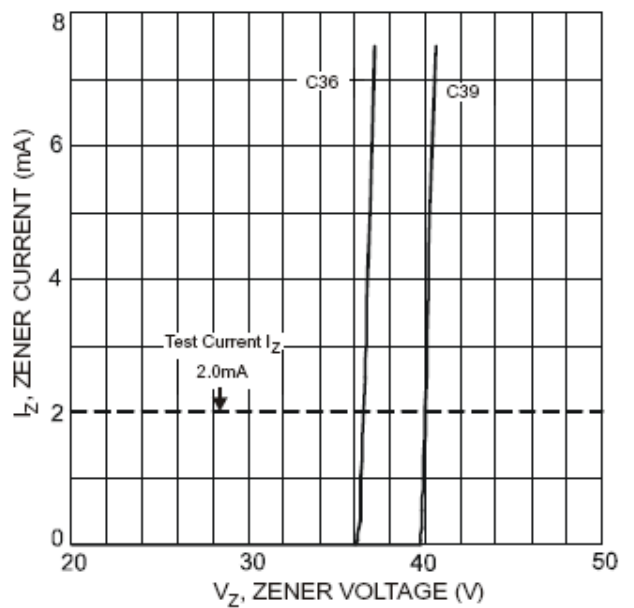
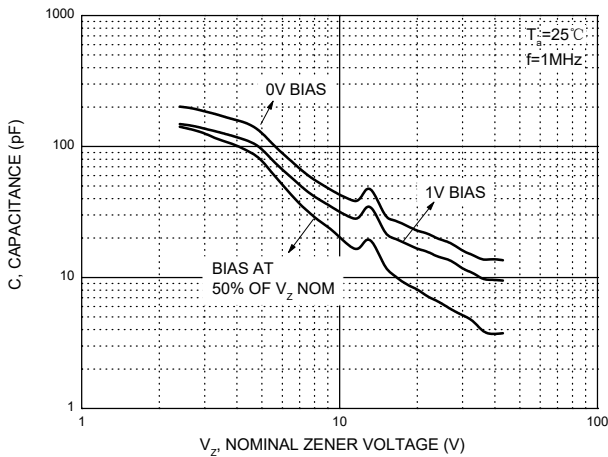


Fig. 4 Typical Zener Breakdown Characteristics

Typical Capacitance





Micro Commercial Components

Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.