

Features

- Standard Vz Tolerance is $\pm 2\%$
- Planar Die Construction
- 410mW Power Dissipation on Ceramic PCB
- Ideally Suited for Automated Assembly Processes
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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)

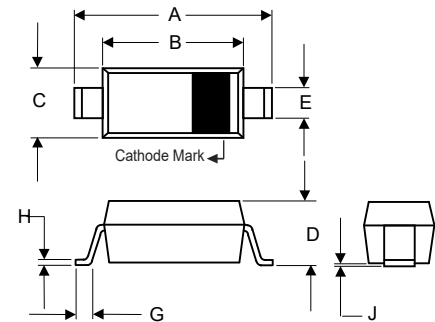
Maximum Ratings

- Operating Junction Temperature Range: -55°C to $+150^{\circ}\text{C}$
- Storage Temperature Range: -55°C to $+150^{\circ}\text{C}$
- Thermal Resistance : 305°C/W Junction to Ambient

Parameter	Symbol	Rating	Conditions
Power Dissipation	P_D	410mW	
Maximum Forward Voltage	V_F	0.9V	$I_F=10\text{mA}$

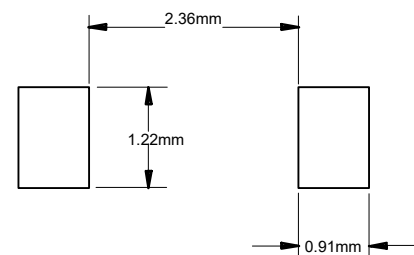
**410 mW
Zener Diode
2.4 to 75 Volts**

SOD-123



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.140	0.152	3.55	3.85	
B	0.100	0.112	2.55	2.85	
C	0.055	0.071	1.40	1.80	
D	----	0.053	----	1.35	
E	0.018	0.026	0.45	0.65	
G	0.006	----	0.15	----	
H	----	0.010	----	0.25	
J	----	0.006	----	0.15	

SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Zener Voltage			Maximum Zener Impedance ⁽¹⁾				Reverse Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT}	I _{ZT}	Z _{ZK}	I _{ZK}	I _R (Max)	V _R	
	Min.(V)	Nom(V)	Max.(V)	Ω	mA	Ω	mA	μA	V	
BZT52B2V4	2.35	2.4	2.45	85	5	600	1	100	1.0	W1/2WX
BZT52B2V7	2.64	2.7	2.75	83	5	600	1	75	1.0	W2/2W1
BZT52B3V0	2.94	3.0	3.06	95	5	600	1	50	1.0	W3/2W2
BZT52B3V3	3.23	3.3	3.37	95	5	600	1	25	1.0	W4/2W3
BZT52B3V6	3.52	3.6	3.67	95	5	600	1	15	1.0	W5/2W4
BZT52B3V9	3.82	3.9	3.98	95	5	600	1	10	1.0	W6/2W5
BZT52B4V3	4.21	4.3	4.39	95	5	600	1	5	1.0	W7/2W6
BZT52B4V7	4.61	4.7	4.79	78	5	500	1	5	2.0	W8/2W7
BZT52B5V1	5.0	5.1	5.2	60	5	480	1	0.1	0.8	W9/2W8
BZT52B5V6	5.49	5.6	5.71	40	5	400	1	0.1	1.0	WA/2W9
BZT52B6V2	6.08	6.2	6.32	10	5	150	1	0.1	2.0	WB/2WA
BZT52B6V8	6.66	6.8	6.94	8	5	80	1	0.1	3.0	WC/2WB
BZT52B7V5	7.35	7.5	7.65	7	5	80	1	0.1	5.0	WD/2WC
BZT52B8V2	8.04	8.2	8.36	7	5	80	1	0.1	6.0	WE/2WD
BZT52B9V1	8.92	9.1	9.28	10	5	100	1	0.1	7.0	WF/2WE
BZT52B10	9.80	10	10.2	15	5	150	1	0.1	7.5	WG/2WF
BZT52B11	10.78	11	11.22	20	5	150	1	0.1	8.5	WH/2WG
BZT52B12	11.76	12	12.24	20	5	150	1	0.1	9.0	WI/2WH
BZT52B13	12.74	13	13.3	25	5	170	1	0.1	10.0	WK/2WI
BZT52B15	14.7	15	15.3	30	5	200	1	0.1	11.0	WL/2WJ
BZT52B16	15.68	16	16.3	40	5	200	1	0.1	12.0	WM/2WK
BZT52B18	17.6	18	18.4	50	5	225	1	0.1	14.0	WN/2WL
BZT52B20	19.6	20	20.4	50	5	225	1	0.1	15.0	WO/2WM
BZT52B22	21.56	22	22.44	55	5	250	1	0.1	17.0	WP/2WN
BZT52B24	23.52	24	24.5	70	5	250	1	0.1	18.0	WR/2WO
BZT52B27	26.46	27	27.54	80	2	300	1	0.1	20.0	WS/2WP
BZT52B30	29.4	30	30.6	80	2	300	1	0.1	22.5	WT/2WQ
BZT52B33	32.34	33	33.7	80	2	325	1	0.1	25.0	WU/2WR
BZT52B36	35.28	36	36.72	90	2	350	1	0.1	27.0	WW/2WS
BZT52B39	38.22	39	39.8	90	2	350	1	0.1	29.0	WX/2WT
BZT52B43	42.14	43	43.86	100	2	375	1	0.1	32.0	WY/2WU
BZT52B47	46.06	47	47.94	100	2	375	1	0.1	35.0	WZ/2WV
BZT52B51	49.98	51	52.02	100	2	400	1	0.1	38.0	XA/2X1
BZT52B56	54.88	56	57.12	135	2	1000	1	0.1	42.0	X2/2X2
BZT52B62	60.76	62	63.24	150	2	1000	1	0.1	46.0	X3/2X3
BZT52B68	66.64	68	69.36	200	2	1000	1	0.1	51.0	X4/2X4
BZT52B75	73.50	75	76.50	250	2	1000	1	0.1	56.0	X5/2X5

Note : 1. f=1KHz

Curve Characteristics

Fig. 1 - Power Derating Curve

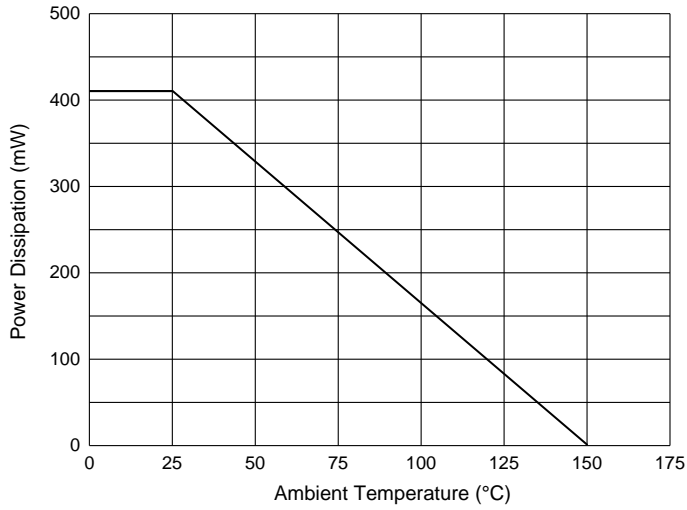


Fig. 2 - Typical Zener Breakdown Characteristics

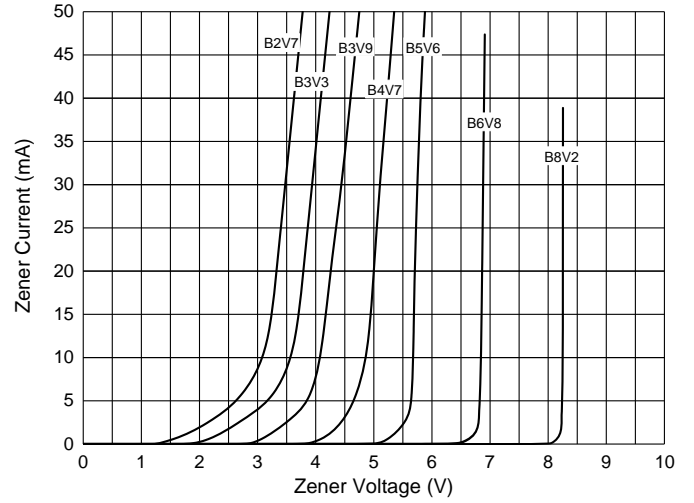


Fig. 3 - Typical Zener Breakdown Characteristics

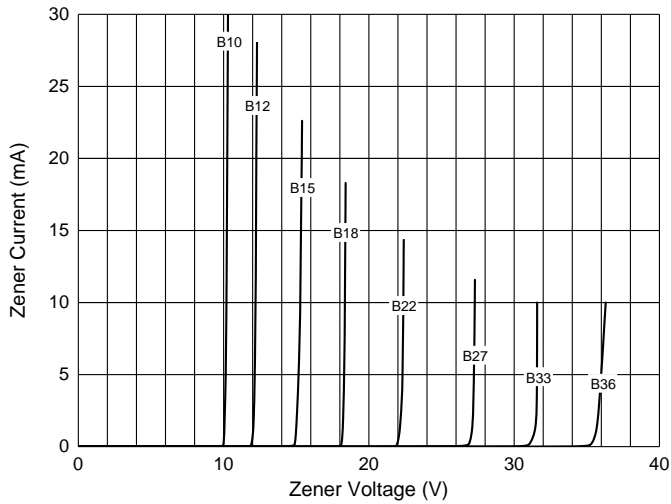
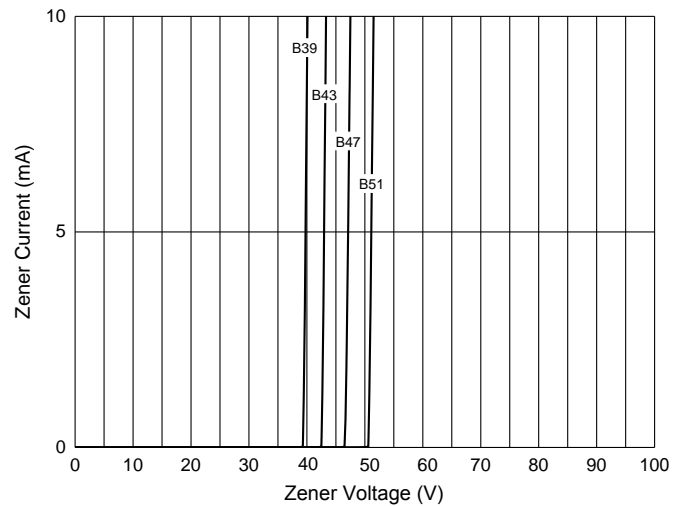


Fig. 4 - Typical Zener Breakdown Characteristics



Ordering Information

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.