

Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number ⁽³⁾	Nominal Zener Voltage ⁽⁴⁾	Test current	Maximum Zener Impedance ⁽⁵⁾			Maximum Reverse Leakage Current		Marking Code
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	I_R	V_R	
	V	mA	Ω	Ω	mA	$\mu A(\text{Max.})$	V	
MMBZ5221B	2.4	20	30	1200	0.25	100	1.0	KC1
MMBZ5222B	2.5	20	30	1250	0.25	100	1.0	KC2
MMBZ5223B	2.7	20	30	1300	0.25	75	1.0	KC3
MMBZ5225B	3.0	20	29	1600	0.25	50	1.0	KC5
MMBZ5226B	3.3	20	28	1600	0.25	25	1.0	KG1
MMBZ5227B	3.6	20	24	1700	0.25	15	1.0	KG2
MMBZ5228B	3.9	20	23	1900	0.25	10	1.0	KG3
MMBZ5229B	4.3	20	22	2000	0.25	5.0	1.0	KG4
MMBZ5230B	4.7	20	19	1900	0.25	5.0	2.0	KG5
MMBZ5231B	5.1	20	17	1600	0.25	5.0	2.0	KE1
MMBZ5232B	5.6	20	11	1600	0.25	5.0	3.0	KE2
MMBZ5233B	6.0	20	7.0	1600	0.25	5.0	3.5	KE3
MMBZ5234B	6.2	20	7.0	1000	0.25	5.0	4.0	KE4
MMBZ5235B	6.8	20	5.0	750	0.25	3.0	5.0	KE5
MMBZ5236B	7.5	20	6.0	500	0.25	3.0	6.0	KF1
MMBZ5237B	8.2	20	8.0	500	0.25	3.0	6.5	KF2
MMBZ5238B	8.7	20	8.0	600	0.25	3.0	6.5	KF3
MMBZ5239B	9.1	20	10	600	0.25	3.0	7.0	KF4
MMBZ5240B	10	20	17	600	0.25	3.0	8.0	KF5
MMBZ5241B	11	20	22	600	0.25	2.0	8.4	KH1
MMBZ5242B	12	20	30	600	0.25	1.0	9.1	KH2
MMBZ5243B	13	9.5	13	600	0.25	0.5	9.9	KH3
MMBZ5244B	14	9.0	15	600	0.25	0.1	10	KH4
MMBZ5245B	15	8.5	16	600	0.25	0.1	11	KH5
MMBZ5246B	16	7.8	17	600	0.25	0.1	12	KJ1
MMBZ5248B	18	7.0	21	600	0.25	0.1	14	KJ3
MMBZ5250B	20	6.2	25	600	0.25	0.1	15	KJ5
MMBZ5251B	22	5.6	29	600	0.25	0.1	17	KK1
MMBZ5252B	24	5.2	33	600	0.25	0.1	18	KK2
MMBZ5254B	27	5.0	41	600	0.25	0.1	21	KK4
MMBZ5255B	28	4.5	44	600	0.25	0.1	21	KK5
MMBZ5256B	30	4.2	49	600	0.25	0.1	23	KM1
MMBZ5257B	33	3.8	58	700	0.25	0.1	25	KM2
MMBZ5258B	36	3.4	70	700	0.25	0.1	27	KM3
MMBZ5259B	39	3.2	80	800	0.25	0.1	30	KM4

Note:

3. Tolerance and Type Number Designation. The Type Numbers Listed Have a Standard Tolerance on The Nominal Zener Voltage of $\pm 5\%$.
4. Zener Voltage (V_Z) Measurement. Guarantess The Zener Voltage When Measured at 90 Seconds While Maintaining The Lead Temperature (T_L) at 25°C from The Diode Body.
5. Zener Impedance (Z_Z) Derivation. The Zener Impedance is Derived from The 60 Cycle AC Voltage, Which Results When an AC Current Having an rms Value Equal to 10% of The DC Zener Current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} .

Curve Characteristics

Fig. 1 - Power Derating Curve

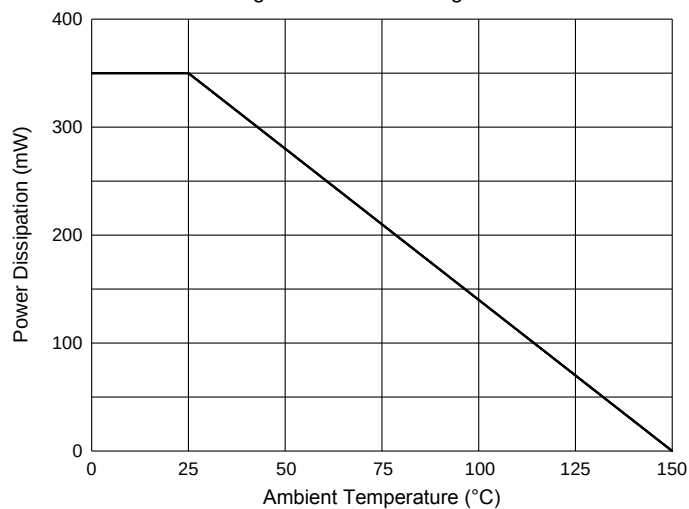


Fig. 2 - Typical Zener Breakdown Characteristics

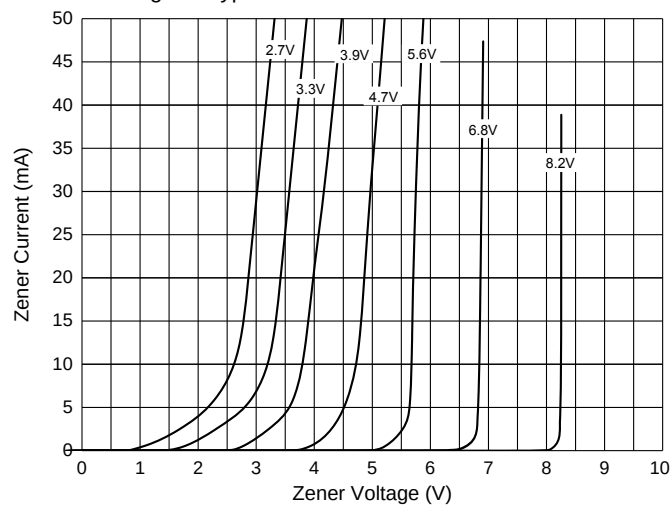
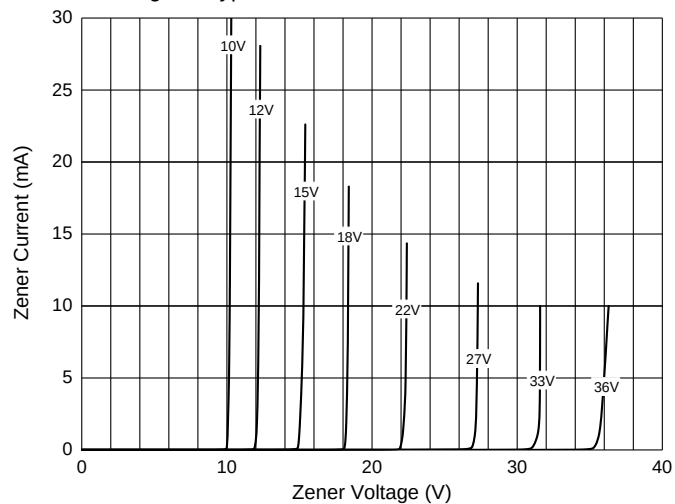


Fig. 3 - Typical Zener Breakdown Characteristics



Ordering Information

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

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.