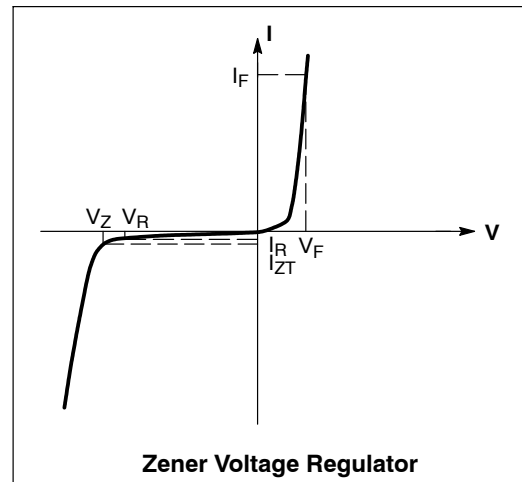


MMBZ52xxBLT1 Series, SZMMBZ52xxBLT1G Series

ELECTRICAL CHARACTERISTICS

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) ($T_A = 25^\circ\text{C}$
unless otherwise noted, $V_F = 0.95\text{ V Max. @ } I_F = 10\text{ mA}$)

Symbol	Parameter
V_Z	Reverse Zener Voltage @ I_{ZT}
I_{ZT}	Reverse Current
Z_{ZT}	Maximum Zener Impedance @ I_{ZT}
I_{ZK}	Reverse Current
Z_{ZK}	Maximum Zener Impedance @ I_{ZK}
I_R	Reverse Leakage Current @ V_R
V_R	Reverse Voltage
I_F	Forward Current
V_F	Forward Voltage @ I_F



MMBZ52xxBLT1 Series, SZMMBZ52xxBLT1G Series

ELECTRICAL CHARACTERISTICS (Pinout: 1-Anode, 2-NC, 3-Cathode) ($V_F = 0.9\text{ V Max @ }I_F = 10\text{ mA}$ for all types.)

Device	Device Marking	Zener Voltage (Note 3)				Zener Impedance			Leakage Current	
		V_Z (Volts)			@ I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @ V_R	
		Min	Nom	Max	mA	Ω	Ω	mA	μA	Volts
SZ/MMBZ5221BL, G	18A	2.28	2.4	2.52	20	30	1200	0.25	100	1
SZ/MMBZ5222BL, G	18B	2.37	2.5	2.63	20	30	1250	0.25	100	1
MMBZ5223BL, G	18C	2.56	2.7	2.84	20	30	1300	0.25	75	1
MMBZ5224BL, G	18D	2.66	2.8	2.94	20	30	1400	0.25	75	1
SZ/MMBZ5225BL, G	18E	2.85	3	3.15	20	29	1600	0.25	50	1
SZ/MMBZ5226BL, G	8A	3.13	3.3	3.47	20	28	1600	0.25	25	1
SZ/MMBZ5227BL, G	8B	3.42	3.6	3.78	20	24	1700	0.25	15	1
SZ/MMBZ5228BL, G	8C	3.70	3.9	4.10	20	23	1900	0.25	10	1
SZ/MMBZ5229BL, G	8D	4.08	4.3	4.52	20	22	2000	0.25	5	1
SZ/MMBZ5230BL, G	8E	4.46	4.7	4.94	20	19	1900	0.25	5	2
SZ/MMBZ5231BL, G	8F	4.84	5.1	5.36	20	17	1600	0.25	5	2
SZ/MMBZ5232BL, G	8G	5.32	5.6	5.88	20	11	1600	0.25	5	3
SZ/MMBZ5233BL, G	8H	5.70	6	6.30	20	7	1600	0.25	5	3.5
SZ/MMBZ5234BL, G	8J	5.89	6.2	6.51	20	7	1000	0.25	5	4
SZ/MMBZ5235BL, G	8K	6.46	6.8	7.14	20	5	750	0.25	3	5
SZ/MMBZ5236BL, G	8L	7.12	7.5	7.88	20	6	500	0.25	3	6
SZ/MMBZ5237BL, G	8M	7.79	8.2	8.61	20	8	500	0.25	3	6.5
SZ/MMBZ5238BL, G	8N	8.26	8.7	9.14	20	8	600	0.25	3	6.5
SZ/MMBZ5239BL, G	8P	8.64	9.1	9.56	20	10	600	0.25	3	7
SZ/MMBZ5240BL, G	8Q	9.50	10	10.50	20	17	600	0.25	3	8
SZ/MMBZ5241BL, G	8R	10.4	11	11.55	20	22	600	0.25	2	8.4
SZ/MMBZ5242BL, G	8S	11.40	12	12.60	20	30	600	0.25	1	9.1
SZ/MMBZ5243BL, G	8T	12.35	13	13.65	9.5	13	600	0.25	0.5	9.9
SZ/MMBZ5244BL, G	8U	13.30	14	14.70	9	15	600	0.25	0.1	10
SZ/MMBZ5245BL, G	8V	14.25	15	15.75	8.5	16	600	0.25	0.1	11
SZ/MMBZ5246BL, G	8W	15.20	16	16.80	7.8	17	600	0.25	0.1	12
MMBZ5247BL, G	8X	16.15	17	17.85	7.4	19	600	0.25	0.1	13
SZ/MMBZ5248BL, G	8Y	17.10	18	18.90	7	21	600	0.25	0.1	14
SZ/MMBZ5249BL, G	8Z	18.05	19	19.95	6.6	23	600	0.25	0.1	14
SZ/MMBZ5250BL, G	81A	19.00	20	21.00	6.2	25	600	0.25	0.1	15
MMBZ5251BL, G	81B	20.90	22	23.10	5.6	29	600	0.25	0.1	17
MMBZ5252BL, G	81C	22.80	24	25.20	5.2	33	600	0.25	0.1	18
SZ/MMBZ5253BL, G	81D	23.75	25	26.25	5	35	600	0.25	0.1	19
SZ/MMBZ5254BL, G	81E	25.65	27	28.35	4.6	41	600	0.25	0.1	21
MMBZ5255BL, G	81F	26.60	28	29.40	4.5	44	600	0.25	0.1	21
SZ/MMBZ5256BL, G	81G	28.50	30	31.50	4.2	49	600	0.25	0.1	23
MMBZ5257BL, G	81H	31.35	33	34.65	3.8	58	700	0.25	0.1	25
SZ/MMBZ5258BL, G	81J	34.20	36	37.80	3.4	70	700	0.25	0.1	27
SZ/MMBZ5259BL, G	81K	37.05	39	40.95	3.2	80	800	0.25	0.1	30
SZ/MMBZ5260BL, G	81L	40.85	43	45.15	3	93	900	0.25	0.1	33
SZ/MMBZ5261BL, G	81M	44.65	47	49.35	2.7	105	1000	0.25	0.1	36
MMBZ5262BL, G	81N	48.45	51	53.55	2.5	125	1100	0.25	0.1	39
SZ/MMBZ5263BL, G	81P	53.20	56	58.80	2.2	150	1300	0.25	0.1	43
SZ/MMBZ5264BL, G	81Q	57.00	60	63.00	2.1	170	1400	0.25	0.1	46
MMBZ5265BL, G	81R	58.90	62	65.10	2	185	1400	0.25	0.1	47
MMBZ5266BL, G	81S	64.60	68	71.40	1.8	230	1600	0.25	0.1	52
MMBZ5267BL, G	81T	71.25	75	78.75	1.7	270	1700	0.25	0.1	56
MMBZ5268BL, G	81U	77.90	82	86.10	1.5	330	2000	0.25	0.1	62
MMBZ5270BL, G	81W	86.45	91	95.55	1.4	400	2300	0.25	0.1	69

3. Zener voltage is measured with a pulse test current I_Z at an ambient temperature of 25°C

NOTE: MMBZ5233BLT1, MMBZ5246BLT1, MMBZ5251BLT1, and MMBZ5252BLT1 Not Available in 10,000/Tape & Reel.

†The "G" suffix indicates Pb-Free package available.

MMBZ52xxBLT1 Series, SZMMBZ52xxBLT1G Series

TYPICAL CHARACTERISTICS

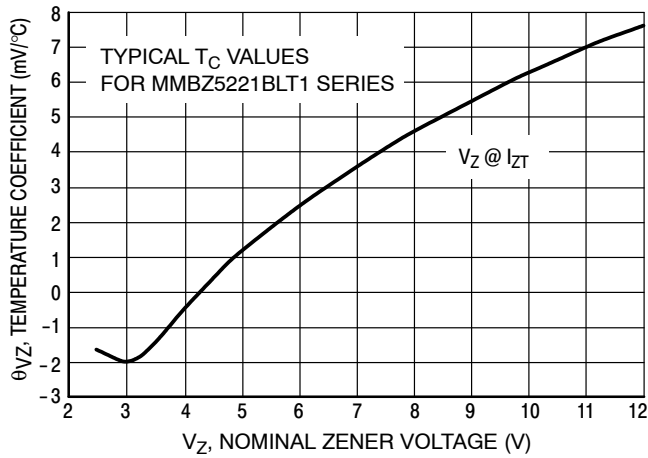


Figure 1. Temperature Coefficients
(Temperature Range -55°C to +150°C)

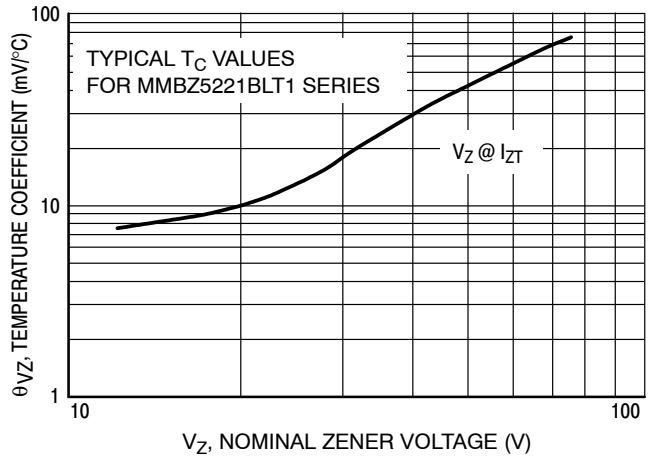


Figure 2. Temperature Coefficients
(Temperature Range -55°C to +150°C)

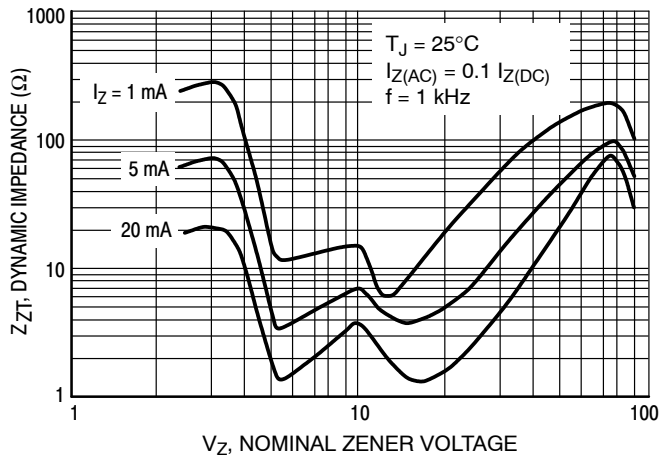


Figure 3. Effect of Zener Voltage on
Zener Impedance

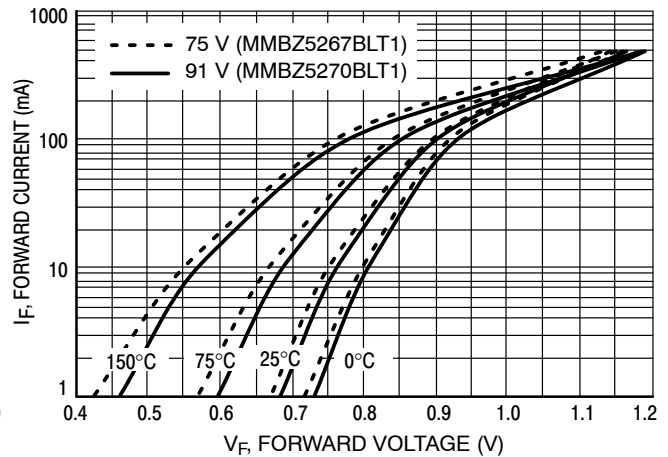


Figure 4. Typical Forward Voltage

TYPICAL CHARACTERISTICS

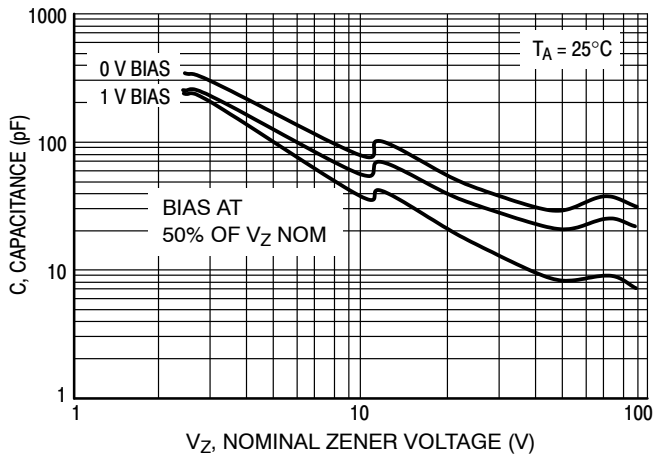


Figure 5. Typical Capacitance

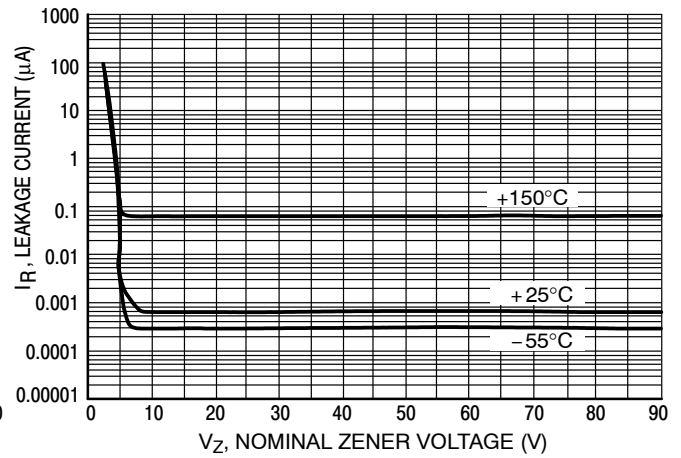


Figure 6. Typical Leakage Current

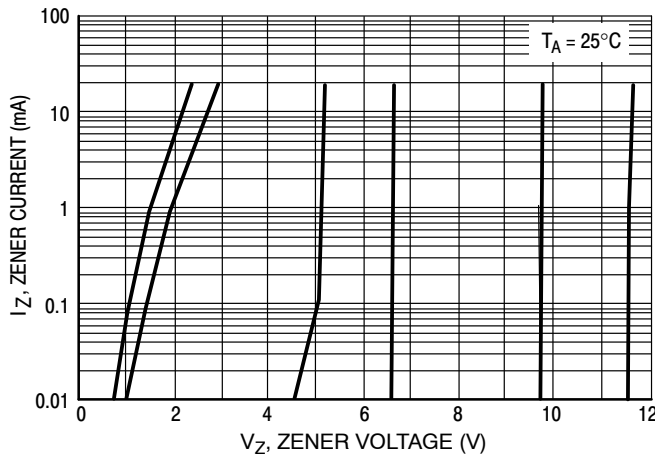


Figure 7. Zener Voltage versus Zener Current (V_Z Up to 12 V)

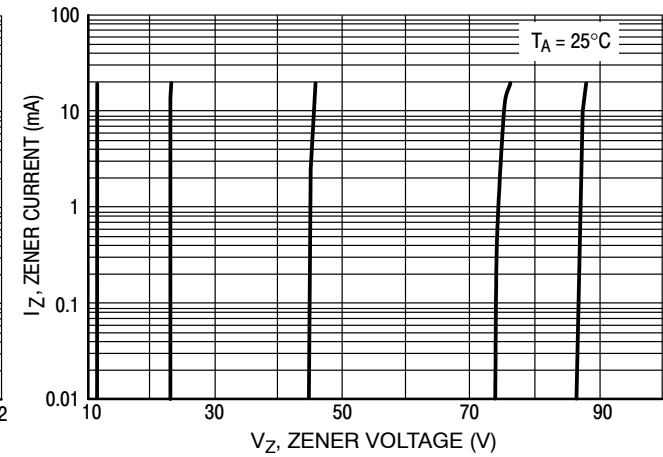


Figure 8. Zener Voltage versus Zener Current (12 V to 91 V)

