

4. SOT-23 ZENER DIODES

(Package): SOT-23



(Pinout: 1-Anode, 2-Nc, 3-cathode) (VF=0.9V Max @ I_F=10mA for all types)(225mW)

DEVICE	Marking	Test Current I _{ZT} mA	Zener Voltage V _Z (±5%) Normal (Note 1)	Z _x I _Z =0.25mA Ω Max	Z _{TT} I _Z =I _{ZT} @10%Mod Ω Max	Max I _R μA	@ V _R V
MMBZ5221BLT1	18A	20	2.4	1200	30	100	1
MMBZ5222BLT1	18B	20	2.5	1250	30	100	1
MMBZ5223BLT1	18C	20	2.7	1300	30	75	1
MMBZ5224BLT1	18D	20	2.8	1400	30	75	1
MMBZ5225BLT1	18E	20	3.0	1600	29	50	1
MMBZ5226BLT1	8A	20	3.3	1600	28	25	1
MMBZ5227BLT1	8B	20	3.6	1700	24	15	1
MMBZ5228BLT1	8C	20	3.9	1900	23	10	1
MMBZ5229BLT1	8D	20	4.3	2000	22	5	1
MMBZ5230BLT1	8E	20	4.7	1900	19	5	2
MMBZ5231BLT1	8F	20	5.1	1600	17	5	2
MMBZ5232BLT1	8G	20	5.6	1600	11	5	3
MMBZ5233BLT1	8H	20	6.0	1600	7	5	3.5
MMBZ5234BLT1	8J	20	6.2	1000	7	5	4
MMBZ5235BLT1	8K	20	6.8	750	5	3	5
MMBZ5236BLT1	8L	20	7.5	500	6	3	6
MMBZ5237BLT1	8M	20	8.2	500	8	3	6.5
MMBZ5238BLT1	8N	20	8.7	600	8	3	6.5
MMBZ5239BLT1	8P	20	9.1	600	10	3	7
MMBZ5240BLT1	8Q	20	10	600	17	3	8
MMBZ5241BLT1	8R	20	11	600	22	2	8.4
MMBZ5242BLT1	8S	20	12	600	30	1	9.1
MMBZ5243BLT1	8T	9.5	13	600	13	0.5	9.9
MMBZ5244BLT1	8U	9	14	600	15	0.1	10
MMBZ5245BLT1	8V	8.5	15	600	16	0.1	11

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DEVICE	Marking	Test Current I _{ZT} mA	Zener Voltage V _Z (±5%) Normal (Note 1)	Z _Z I _Z =0.25mA Ω Max	Z ZT I _Z =I _{ZT} @10%Mod Ω Max	Max I _R μA	@ V _R V
MMBZ5246BLT1	8W	7.8	16	600	17	0.1	12
MMBZ5247BLT1	8X	7.4	17	600	19	0.1	13
MMBZ5248BLT1	8Y	7	18	600	21	0.1	14
MMBZ5249BLT1	8Z	6.6	19	600	23	0.1	14
MMBZ5250BLT1	81A	6.2	20	600	25	0.1	15
MMBZ5251BLT1	81B	5.6	22	600	29	0.1	17
MMBZ5252BLT1	81C	5.2	24	600	33	0.1	18
MMBZ5253BLT1	81D	5	25	600	35	0.1	19
MMBZ5254BLT1	81E	4.6	27	600	41	0.1	21
MMBZ5255BLT1	81F	4.5	28	600	44	0.1	21
MMBZ5256BLT1	81G	4.2	30	600	49	0.1	23
MMBZ5257BLT1	81H	3.8	33	700	58	0.1	25
MMBZ5258BLT1	81J	3.4	36	700	70	0.1	27
MMBZ5259BLT1	81K	3.2	39	800	80	0.1	30
MMBZ5260BLT1	81F	3	43	900	93	0.1	33
MMBZ5261BLT1	81M	2.7	47	1000	105	0.1	36
MMBZ5262BLT1	81N	2.5	51	1100	125	0.1	39
MMBZ5263BLT1	81P	2.2	56	1300	150	0.1	43
MMBZ5264BLT1	81Q	2.1	60	1400	170	0.1	46
MMBZ5265BLT1	81R	2	62	1400	185	0.1	47
MMBZ5266BLT1	81S	1.8	68	1600	230	0.1	52
MMBZ5267BLT1	81T	1.7	75	1700	170	0.1	56
MMBZ5268BLT1	81U	1.5	82	2000	330	0.1	62
MMBZ5269BLT1	81V	1.4	87	2200	370	0.1	68
MMBZ5270BLT1	81W	1.4	91	2300	400	0.1	69



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TYPE Number	Marking	Zener Voltage Vz1 (Volts) @Iz1=5mA (Note 1)			Max Zener Impedance Zz11 (ohms) @Iz1=5mA	Max Reverse Leakage Current		Zener Voltage Vz2 (Volts) @Iz2=1mA (Note 1)		Max Zener Impedance Zz12 (ohms) @Iz2=1mA	Zener Voltage Vz3 (Volts) @Iz3=20mA (Note 1)		Max Zener Impedance Zz13 (ohms) @Iz3=20mA	dvz/dt (mV/k) @Iz1=5mA		Cpf Max @f=1MHz		
		Nom	Min	Max		I _R μA	V _R Volts	Min	Max		Min	Max		Min	Max		Min	Max
BZX84C2V4LT1	Z11	2.4	2.2	2.6	100	50	1	1.7	2.1	600	2.6	3.2	50	-3.5	0	450		
BZX84C2V7LT1	Z12	2.7	2.5	2.9	100	20	1	1.9	2.4	600	3	3.6	50	-3.5	0	450		
BZX84C3V0LT1	Z13	3	2.8	3.2	95	10	1	2.1	2.7	600	3.3	3.9	50	-3.5	0	450		
BZX84C3V3LT1	Z14	3.3	3.1	3.5	95	5	1	2.3	2.9	600	3.6	4.2	40	-3.5	0	450		
BZX84C3V6LT1	Z15	3.6	3.4	3.8	90	5	1	2.7	3.3	600	3.9	4.5	40	-3.5	0	450		
BZX84C3V9LT1	Z16	3.9	3.7	4.1	90	3	1	2.9	3.5	600	4.1	4.7	30	-3.5	-2.5	450		
BZX84C4V3LT1	W9	4.3	4	4.6	90	3	1	3.3	4	600	4.4	5.1	30	-3.5	0	450		
BZX84C4V7LT1	Z1	4.4	4.4	5	80	3	2	3.7	4.7	500	4.5	5.4	15	-3.5	0.2	260		
BZX84C5V1LT1	Z2	5.1	4.8	5.4	60	2	2	4.2	5.3	480	5	5.9	15	-2.7	1.2	225		
BZX84C5V6LT1	Z3	5.6	5.2	6	40	1	2	4.8	6	400	5.2	6.3	10	-2.0	2.5	200		
BZX84C6V2LT1	Z4	6.2	5.8	6.6	10	3	4	5.6	6.6	150	5.8	6.8	6	0.4	3.7	185		
BZX84C6V8LT1	Z5	6.8	6.4	7.2	15	2	4	6.3	7.2	80	6.4	7.4	6	1.2	4.5	155		
BZX84C7V5LT1	Z6	7.5	7	7.9	15	1	5	6.9	7.9	80	7	8	6	2.5	5.3	140		
BZX84C8V2LT1	Z7	8.2	7.7	8.7	15	0.7	5	7.6	8.7	80	7.7	8.8	6	3.2	6.2	135		
BZX84C9V1LT1	Z8	9.1	8.5	9.6	15	0.5	6	8.4	9.6	100	8.5	9.7	8	3.8	7.0	130		
BZX84C10LT1	Z9	10	9.4	10.6	20	0.2	7	9.3	10.6	150	9.4	10.7	10	4.5	8.0	130		
BZX84C11LT1	Y1	11	10.4	11.6	20	0.1	8	10.2	11.6	150	10.4	11.8	10	5.4	9.0	130		
BZX84C12LT1	Y2	12	11.4	12.7	25	0.1	8	11.2	12.7	150	11.4	12.9	10	6.0	10.0	130		
BZX84C13LT1	Y3	13	12.4	14.1	30	0.1	8	12.3	14	170	12.5	14.2	15	7.0	11.0	120		
BZX84C15LT1	Y4	15	13.8	15.6	30	0.05	10.5	13.7	15.5	200	13.9	15.7	20	9.2	13.0	110		
BZX84C16LT1	Y5	16	15.3	17.1	40	0.05	11.2	15.2	17	200	15.4	17.2	20	10.4	14.0	105		
BZX84C18LT1	Y6	18	16.8	19.1	45	0.05	12.6	16.7	19	225	16.9	19.2	20	12.4	16.0	100		
BZX84C20LT1	Y7	20	18.8	21.2	55	0.05	14	18.7	21.1	225	18.9	21.4	20	14.4	18.0	85		
BZX84C22LT1	Y8	22	20.8	23.3	55	0.05	15.4	20.7	23.2	250	20.9	23.4	25	16.4	20.0	85		
BZX84C24LT1	Y9	24	22.8	25.6	70	0.05	16.8	22.7	25.5	250	22.9	25.7	25	18.4	22.0	80		
		Vz1 Below @Iz1=2mA			Zz11 Below @Iz1=2mA			Vz2 Below @Iz2=0.1mA		Zz12 Below @Iz2=0.5mA (Note 2)	Vz3 Below @Iz3=10mA		Zz13 Below @Iz3=10mA	dvz/dt (mV/k) Below @Iz1=2mA				
BZX84C27LT1	Y10	27	25.1	28.9	80	0.05	18.9	25	28.9	300	25.2	29.3	45	21.4	25.3	70		
BZX84C30LT1	Y11	30	28	32	80	0.05	21	27.8	32	300	28.1	32.4	50	24.4	29.4	70		
BZX84C33LT1	Y12	33	31	35	80	0.05	23.1	30.8	35	325	31.1	35.4	55	27.4	33.4	70		
BZX84C36LT1	Y13	36	34	38	90	0.05	25.2	33.8	38	350	34.1	38.4	60	30.4	37.4	70		
BZX84C39LT1	Y14	39	37	41	130	0.05	27.3	36.7	41	350	37.1	41.5	70	33.4	41.2	45		
BZX84C43LT1	Y15	43	40	46	150	0.05	30.1	39.7	46	375	40.1	46.5	80	37.6	46.6	40		
BZX84C47LT1	Y16	47	44	50	170	0.05	32.9	43.7	50	375	44.1	50.5	90	42.0	51.8	40		
BZX84C51LT1	Y17	51	48	54	180	0.05	35.7	47.6	54	400	48.1	54.6	100	46.6	57.2	40		
BZX84C56LT1	Y18	56	52	55	200	0.05	39.2	51.5	60	425	52.1	60.8	110	52.2	63.8	40		
BZX84C62LT1	Y19	62	58	66	215	0.05	43.4	57.4	66	450	58.2	67	120	58.8	71.6	35		
BZX84C68LT1	Y20	68	64	72	240	0.05	47.6	63.4	72	475	64.2	73.2	130	65.6	79.8	35		
BZX84C75LT1	Y21	75	70	79	255	0.05	52.5	69.4	79	500	70.3	80.2	140	73.4	88.6	35		