

Part Number	Zener Voltage Range@Test Current				Max. Zener Impe	
	V	Vz	V	IZT	ZZT @	ZZK @
	Min	Nom	Max	mA	$\Omega$	$\Omega$
1SMC5388B	-	200	-	5	480	1850
1SMC5387B	-	190	-	5	450	1850
1SMC5386B	-	180	-	5	430	1750
1SMC5385B	-	170	-	8	380	1750
1SMC5384B	-	160	-	8	350	1650
1SMC5383B	-	150	-	8	330	1500
1SMC5382B	-	140	-	8	230	1500
1SMC5381B	-	130	-	10	190	1250
1SMC5380B	-	120	-	10	170	1150
1SMC5379B	-	110	-	12	125	1000
1SMC5378B	-	100	-	12	90	800
1SMC5377B	-	91	-	15	75	760
1SMC5376B	-	87	-	15	75	760
1SMC5375B	-	82	-	15	65	720
1SMC5374B	-	75	-	20	45	620
1SMC5373B	-	68	-	20	44	500
1SMC5372B	-	62	-	20	42	400
1SMC5371B	-	60	-	20	40	350
1SMC5370B	-	56	-	20	35	280
1SMC5369B	-	51	-	25	27	230
1SMC5368B	-	47	-	25	25	210
1SMC5367B	-	43	-	30	20	190
1SMC5366B	-	39	-	30	14	170
1SMC5365B	-	36	-	30	11	160
1SMC5364B	-	33	-	40	10	150
1SMC5363B	-	30	-	40	8	140
1SMC5362B	-	28	-	50	6	130
1SMC5361B	-	27	-	50	5	120
1SMC5360B	-	25	-	50	4	110
1SMC5359B	-	24	-	50	3.5	100
1SMC5358B	-	22	-	50	3.5	75
1SMC5357B	-	20	-	65	3	75
1SMC5356B	-	19	-	65	3	75

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1SMC5355B	-	18	-	65	2.5	75
1SMC5354B	-	17	-	70	2.5	75
1SMC5353B	-	16	-	75	2.5	75
1SMC5352B	-	15	-	75	2.5	75
1SMC5351B	-	14	-	100	2.5	75
1SMC5350B	-	13	-	100	2.5	100
1SMC5349B	-	12	-	100	2.5	125
1SMC5348B	-	11	-	125	2.5	125
1SMA3EZ200	-	200	-	1.9	1200	8000
1SMA3EZ180	-	180	-	2.1	900	7000
1SMA3EZ160	-	160	-	2.3	700	6500
1SMA3EZ150	-	150	-	2.5	600	6000
1SMA3EZ130	-	130	-	2.9	450	5000
1SMA3EZ120	-	120	-	3.1	380	4500
1SMA3EZ110	-	110	-	3.4	300	4000
1SMA3EZ100	-	100	-	3.7	250	3100
1SMA3EZ91	-	91	-	4.1	200	3000
1SMA3EZ82	-	82	-	4.6	160	2500
1SMA3EZ75	-	75	-	5	140	2000
1SMA3EZ68	-	68	-	5.5	120	1700
1SMA3EZ62	-	62	-	6	100	1500
1SMA3EZ56	-	56	-	6.7	86	1300
1SMA3EZ51	-	51	-	7.3	70	1100
1SMA3EZ47	-	47	-	8	67	1000
1SMA3EZ43	-	43	-	8.7	53	950
1SMA3EZ39	-	39	-	9.6	45	900
1SMA3EZ36	-	36	-	10.4	38	850
1SMA3EZ33	-	33	-	11.4	33	800
1SMA3EZ30	-	30	-	12.5	26	750
1SMA3EZ27	-	27	-	13.9	23	700
1SMA3EZ24	-	24	-	15.6	19	700
1SMA3EZ22	-	22	-	17	17.5	650
1SMA3EZ20	-	20	-	18.7	14	650
1SMA3EZ18	-	18	-	20.8	12	650
1SMA3EZ16	-	16	-	23.4	10	600
1SMA3EZ15	-	15	-	25	9	600
1SMA3EZ13	-	13	-	28.8	7	550
1SMA3EZ12	-	12	-	31.2	6.5	550

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1SMA3EZ11	-	11	-	34.1	5.5	550
1SMA3EZ10	-	10	-	37.5	4.5	500
1SMA3EZ9V1	-	9.1	-	41.2	4	500
1SMA3EZ8V2	-	8.2	-	45.7	3.5	400
1SMA3EZ7V5	-	7.5	-	50	3	400
1SMA3EZ6V8	-	6.8	-	55.1	2.5	200
ZM1.5C200V	188	200	212	1.9	1200	8000
ZM1.5C180V	168	180	191	2.1	900	7000
ZM1.5C160V	153	160	171	2.3	700	6500
ZM1.5C150V	138	150	156	2.5	600	6000
ZM1.5C130V	124	130	141	2.9	450	5000
ZM1.5C120V	114	120	127	2.1	380	4500
ZM1.5C110V	104	110	116	3.4	300	4000
ZM1.5C100V	94	100	106	3.7	250	3100
ZM1.5C91V	85	91	96	4.1	200	3000
ZM1.5C82V	87	82	87	4.6	160	2500
ZM1.5C75V	79	75	79	5	140	2000
ZM1.5C68V	64	68	72	5.5	120	1700
ZM1.5C62V	58	62	66	6	100	1500
ZM1.5C56V	52	56	60	6.7	86	1300
ZM1.5C51V	48	51	54	7.3	70	1100
ZM1.5C47V	44	47	50	8	67	1000
ZM1.5C43V	40	43	46	8.7	53	950
ZM1.5C39V	37	39	41	9.6	45	900
ZM1.5C36V	34	36	38	10.4	38	850
ZM1.5C33V	31	33	35	11.4	33	800
ZM1.5C30V	28	30	32	12.5	26	750
ZM1.5C27V	25.1	27	28.9	13.9	23	700
ZM1.5C24V	22.8	24	25.6	15.6	19	700
ZM1.5C22V	20.8	22	23.3	17	17.5	650
ZM1.5C20V	18.8	20	21.2	18.7	14	650
ZM1.5C18V	16.8	18	19.1	20.8	12	600
ZM1.5C16V	15.3	16	17.1	23.4	10	600
ZM1.5C15V	13.8	15	15.6	25	9	550
ZM1.5C13V	12.4	13	14.1	28.8	7	550
ZM1.5C12V	11.4	12	12.7	31.2	6.5	550
ZM1.5C11V	10.4	11	11.6	34.1	5.5	550
ZM1.5C10V	9.4	10	10.6	37.5	4.5	500

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ZM1.5C9V1	8.5	9.1	9.6	41.2	4	500
ZM1.5C8V2	7.7	8.2	8.7	45.7	3.5	400
ZM1.5C7V5	7	7.5	7.9	50	3	400
ZM1.5C6V8	6.4	6.8	7.2	55.1	2.5	200
ZM1.5C6V2	5.8	6.2	6.6	60.5	2	200
ZM1.5C5V6	5.2	5.6	6	66.9	2	250
ZM1.5C5V1	4.8	5.1	5.4	73.5	4	350
ZM1.5C4V7	4.4	4.7	5	79.8	5	500
ZM1.5C4V3	4	4.3	4.6	87.2	6	500
ZM1.5C3V9	3.7	3.9	4.1	96.1	7.5	500
ZM1.5C3V6	3.4	3.6	3.8	104.2	9	500
ZM1.5C3V3	3.1	3.3	3.5	113.6	10	500
1SMA5956B	-	200	-	1.9	1200	8000
1SMA5955B	-	180	-	2.1	900	7000
1SMA5954B	-	160	-	2.3	700	6500
1SMA5953B	-	150	-	2.5	600	6000
1SMA5952B	-	130	-	209	450	5000
1SMA5951B	-	120	-	3.1	380	4500
1SMA5950B	-	110	-	3.4	300	4000
1SMA5949B	-	100	-	307	250	3100
1SMA5948B	-	91	-	4.1	200	3000
1SMA5947B	-	82	-	4.6	160	2500
1SMA5946B	-	75	-	5	40	2000
1SMA5945B	-	68	-	5.5	120	1700
1SMA5944B	-	62	-	6	100	1500
1SMA5943B	-	56	-	6.7	86	1300
1SMA5942B	-	51	-	7.3	70	1100
1SMA5941B	-	47	-	8	67	1000
1SMA5940B	-	43	-	8.7	53	950
1SMA5939B	-	39	-	9.6	45	900
1SMA5938B	-	36	-	10.4	38	850
1SMA5937B	-	33	-	11.4	33	800
1SMA5936B	-	30	-	12.5	26	750
1SMA5935B	-	27	-	13.9	23	700
1SMA5934B	-	24	-	15.6	19	70
1SMA5933B	-	22	-	17	17.5	650
1SMA5932B	-	20	-	18.7	14	650
1SMA5931B	-	18	-	20.8	12	650

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1SMA5930B	-	16	-	23.4	10	600
1SMA5929B	-	15	-	25	9	600
1SMA5928B	-	13	-	28.8	7	550
1SMA5927B	-	12	-	31.2	6.5	550
1SMA5926B	-	11	-	34.1	5.5	550
ZM4764A	-	100	-	2.5	350	3000
ZM4763A	-	91	-	2.8	250	3000
ZM4762A	-	82	-	3	200	3000
ZM4761A	-	75	-	3.3	175	2000
ZM4760A	-	68	-	3.7	150	2000
ZM4759A	-	62	-	4	125	2000
ZM4758A	-	56	-	4.5	110	2000
ZM4757A	-	51	-	5	95	1500
ZM4756A	-	47	-	5.5	80	1500
ZM4755A	-	43	-	6	70	1500
ZM4754A	-	39	-	6.5	60	1000
ZM4753A	-	36	-	7	50	1000
ZM4752A	-	33	-	7.5	45	1000
ZM4751A	-	30	-	8.5	40	1000
ZM4750A	-	27	-	9.5	35	750
ZM4749A	-	24	-	10.5	25	750
ZM4748A	-	22	-	11.5	23	750
ZM4747A	-	20	-	12.5	22	750
ZM4746A	-	18	-	14	20	750
ZM4745A	-	16	-	15.5	16	700
ZM4744A	-	15	-	17	14	700
ZM4743A	-	13	-	19	10	700
ZM4742A	-	12	-	21	9	700
ZM4741A	-	11	-	23	8	700
ZM4740A	-	10	-	25	7	700
ZM4739A	-	9.1	-	28	5	700
ZM4738A	-	8.2	-	31	4.5	700
ZM4737A	-	7.5	-	34	4	700
ZM4736A	-	6.8	-	37	3.5	700
ZM4735A	-	6.2	-	41	2	700
ZM4734A	-	5.6	-	45	5	600
ZM4733A	-	5.1	-	49	7	550
ZM4732A	-	4.7	-	53	8	500

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ZM4731A	-	4.3	-	58	9	100
ZM4730A	-	3.9	-	64	9	100
ZM4729A	-	3.6	-	69	10	10
ZM4728A	-	3.3	-	76	10	100
1SMA4754	37.1	39	41	6.5	60	1000
1SMA4753	34.2	36	37.8	7	50	1000
1SMA4752	31.4	33	34.7	7.5	45	1000
1SMA4751	28.5	30	31.5	8.5	40	1000
1SMA4750	25.7	27	28.4	9.5	35	750
1SMA4749	22.8	24	25.2	10.5	25	750
1SMA4748	20.9	22	23.1	11.5	23	750
1SMA4747	19	20	21	12.5	22	750
1SMA4746	17.1	18	18.9	14	20	750
1SMA4745	15.2	16	16.8	15.5	16	700
1SMA4744	14.3	15	15.8	17	14	700
1SMA4743	12.4	13	13.7	19	10	700
1SMA4742	11.4	12	12.6	21	9	700
1SMA4741	10.5	11	11.6	23	8	700
ZMM5267	-	75	-	2	270	1700
ZMM5266	-	68	-	2	230	1600
ZMM5265	-	62	-	2	185	1400
ZMM5264	-	60	-	2	170	1400
ZMM5263	-	56	-	2	150	1300
ZMM5262	-	51	-	3	125	1100
ZMM5261	-	47	-	3	105	1000
ZMM5260	-	43	-	3	93	900
ZMM5259	-	39	-	3	80	800
ZMM5258	-	36	-	3	70	700
ZMM5257	-	33	-	4	58	700
ZMM5256	-	30	-	4	49	600
ZMM5255	-	28	-	5	44	600
ZMM5254	-	27	-	5	41	600
ZMM5253	-	25	-	5	35	600
ZMM5252	-	24	-	5	33	600
ZMM5251	-	22	-	6	29	600
ZMM5250	-	20	-	6	25	600
ZMM5249	-	19	-	7	23	600
ZMM5248	-	18	-	7	21	600

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ZMM5247	-	17	-	7	19	600
ZMM5246	-	16	-	8	17	600
ZMM5245	-	15	-	9	16	600
ZMM5244	-	14	-	9	15	600
ZMM5243	-	13	-	10	13	600
ZMM5242	-	12	-	20	30	600
ZMM5241	-	11	-	20	22	600
ZMM5240	-	10	-	20	17	600
ZMM5239	-	9.1	-	20	10	600
ZMM5238	-	8.7	-	20	8	600
ZMM5237	-	8.2	-	20	8	500
ZMM5236	-	7.5	-	20	6	500
ZMM5235	-	6.8	-	20	5	750
ZMM5234	-	6.2	-	20	7	1000
ZMM5233	-	6	-	20	7	1600
ZMM5232	-	5.6	-	20	11	1600
ZMM5231	-	5.1	-	20	17	1600
ZMM5230	-	4.7	-	20	19	1900
ZMM5229	-	4.3	-	20	22	2000
ZMM5228	-	3.9	-	20	23	1900
ZMM5227	-	3.6	-	20	24	1700
ZMM5226	-	3.3	-	20	28	1600
ZMM5225	-	3	-	20	29	1600
MM1Z120V	114	120	127	1	900	-
MM1Z110V	104	110	116	1	800	-
MM1Z100V	94	100	106	1	700	-
MM1Z91V	85	91	96	1	700	-
MM1Z82V	77	82	87	3	300	-
MM1Z75V	70	75	79	3	300	-
MM1Z68V	64	68	72	3	250	-
MM1Z62V	58	62	66	3	200	-
MM1Z56V	52	56	60	3	180	-
MM1Z51V	48	51	54	3	180	-
MM1Z47V	44	47	50	3	150	-
MM1Z43V	40	43	46	3	130	-
MM1Z39V	37	39	41	3	100	-
MM1Z36V	34	36	38	5	90	-
MM1Z33V	31	33	35	5	80	-

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MM1Z30V	28	30	32	5	80	-
MM1Z27V	25.1	27	28.9	5	70	-
MM1Z24V	22.8	24	25.6	5	60	-
MM1Z22V	20.8	22	23.3	5	55	-
MM1Z20V	18.8	20	21.2	5	50	-
MM1Z18V	16.8	18	19.1	5	45	-
MM1Z16V	15.3	16	17.1	5	40	-
MM1Z15V	13.8	15	15.6	5	40	-
MM1Z13V	12.4	13	14.1	5	35	-
MM1Z12V	11.4	12	12.7	5	35	-
MM1Z11V	10.4	11	11.6	5	30	-
MM1Z10V	9.4	10	10.6	5	30	-
MM1Z9V1	8.5	9.1	9.6	5	30	-
MM1Z8V2	7.7	8.2	8.7	5	30	-
MM1Z7V5	7	7.5	7.9	5	30	-
MM1Z6V8	6.4	6.8	7.2	5	30	-
MM1Z6V2	5.8	6.2	6.6	5	50	-
MM1Z5V6	5.2	5.6	6	5	80	-
MM1Z5V1	4.8	5.1	5.4	5	130	-
MM1Z4V7	4.4	4.7	5	5	130	-
MM1Z4V3	4	4.3	4.6	5	130	-
MM1Z3V9	3.7	3.9	4.1	5	130	-
MM1Z3V6	3.4	3.6	3.8	5	130	-
MM1Z3V3	3.1	3.3	3.5	5	130	-
MM1Z3V0	2.8	3	3.2	5	120	-
MM1Z2V7	2.5	2.7	2.9	5	110	-
MM1Z2V4	2.28	2.4	2.56	5	100	-
MM1Z2V2	2.08	2.2	2.33	5	100	-
MM1Z2V0	1.8	2	2.15	5	100	-
MM1Z5259B	37.05	39	40.95	3	80	800
MM1Z5258B	34.2	36	37.8	3	70	700
MM1Z5257B	31.35	33	34.65	4	58	700
MM1Z5256B	28.5	30	31.5	4	49	600
MM1Z5255B	26.6	28	29.4	5	44	600
MM1Z5254B	25.65	27	28.35	5	41	600
MM1Z5252B	22.8	24	25.2	5	33	600
MM1Z5251B	20.9	22	23.1	6	29	600
MM1Z5250B	19	20	21	6	25	600

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MM1Z5248B	17.1	18	18.9	7	21	600
MM1Z5246B	15.2	16	16.8	8	17	600
MM1Z5245B	14.25	15	15.75	9	16	600
MM1Z5243B	12.35	13	13.65	10	13	600
MM1Z5242B	11.4	12	12.6	20	30	600
MM1Z5241B	10.45	11	11.55	20	22	600
MM1Z5240B	9.5	10	10.5	20	17	600
MM1Z5239B	8.65	9.1	9.56	20	10	600
MM1Z5237B	7.79	8.2	8.61	20	8	500
MM1Z5236B	7.13	7.5	7.88	20	6	750
MM1Z5235B	6.46	6.8	7.14	20	5	1000
MM1Z5234B	5.89	6.2	6.51	20	7	1600
MM1Z5232B	5.32	5.6	5.88	20	11	1600
MM1Z5231B	4.85	5.1	5.36	20	17	1600
MM1Z5230B	4.47	4.7	4.94	20	19	1900
MM1Z5229B	4.09	4.3	4.52	20	22	2000
MM1Z5228B	3.71	3.9	4.1	20	23	1900
MM1Z5227B	3.42	3.6	3.78	20	24	1700
MM1Z5226B	3.14	3.3	3.47	20	28	1600
MM1Z5225B	2.85	3	3.15	20	30	1600
MM1Z5223B	2.57	2.7	2.84	20	30	1300
MM1Z5222B	2.38	2.5	2.63	20	30	1250
MM1Z5221B	2.28	2.4	2.52	20	30	1200
MMBZ5267B	-	75	-	1.7	270	1700
MMBZ5266B	-	68	-	1.8	230	1600
MMBZ5265B	-	62	-	2	185	1400
MMBZ5264B	-	60	-	2.1	170	1400
MMBZ5263B	-	56	-	2.2	150	1300
MMBZ5262B	-	51	-	2.5	125	1100
MMBZ5261B	-	47	-	2.7	105	1000
MMBZ5260B	-	43	-	3	93	900
MMBZ5259B	-	39	-	3.2	80	800
MMBZ5258B	-	36	-	3.4	70	700
MMBZ5257B	-	33	-	3.8	58	700
MMBZ5256B	-	30	-	4.2	49	600
MMBZ5255B	-	28	-	4.5	44	600
MMBZ5254B	-	27	-	4.6	41	600
MMBZ5253B	-	25	-	5	35	600

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MMBZ5252B	-	24	-	5.2	33	600
MMBZ5251B	-	22	-	5.6	29	600
MMBZ5250B	-	20	-	6.2	25	600
MMBZ5249B	-	19	-	6.6	23	600
MMBZ5248B	-	18	-	7	21	600
MMBZ5247B	-	17	-	7.4	19	600
MMBZ5246B	-	16	-	7.8	17	600
MMBZ5245B	-	15	-	8.5	16	600
MMBZ5244B	-	14	-	9	15	600
MMBZ5243B	-	13	-	9.5	13	600
MMBZ5242B	-	12	-	20	30	600
MMBZ5241B	-	11	-	20	22	600
MMBZ5240B	-	10	-	20	17	600
MMBZ5239B	-	9.1	-	20	10	600
MMBZ5238B	-	8.7	-	20	8	500
MMBZ5237B	-	8.2	-	20	8	500
MMBZ5236B	-	7.5	-	20	6	750
MMBZ5235B	-	6.8	-	20	5	1000
MMBZ5234B	-	6.2	-	20	7	1600
MMBZ5233B	-	6	-	20	7	1600
MMBZ5232B	-	5.6	-	20	11	1600
MMBZ5231B	-	5.1	-	20	17	1600
MMBZ5230B	-	4.7	-	20	19	1900
MMBZ5229B	-	4.3	-	20	22	2000
MMBZ5228B	-	3.9	-	20	23	1900
MMBZ5227B	-	3.6	-	20	24	1700
MMBZ5226B	-	3.3	-	20	28	1600
MMBZ5225B	-	3	-	20	30	1600
BZX84C75	70	75	79	2.5	250	1000
BZX84C68	64	68	72	2.5	200	1000
BZX84C62	58	62	66	2.5	150	1000
BZX84C56	52	56	60	2.5	135	1000
BZX84C51	48	51	54	5	70	750
BZX84C47	44	47	50	5	70	750
BZX84C43	40	43	46	5	60	700
BZX84C39	37	39	41	5	50	300
BZX84C36	34	36	38	5	40	250
BZX84C33	31	33	35	5	40	250

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BZX84C30	28	30	32	5	35	250
BZX84C27	25.1	27	28.9	5	30	250
BZX84C24	22.8	24	25.6	5	28	220
BZX84C22	20.8	22	23.3	5	25	220
BZX84C20	18.8	20	21.2	5	20	220
BZX84C18	16.8	18	19.1	5	18	170
BZX84C16	15.3	16	17.1	5	13	170
BZX84C15	13.8	15	15.6	5	11	110
BZX84C13	12.4	13	14.1	5	9	110
BZX84C12	11.4	12	12.7	5	7	90
BZX84C11	10.4	11	11.6	5	6	70
BZX84C10	9.4	10	10.6	5	5.2	70
BZX84C9V1	8.5	9.1	9.6	5	4.8	50
BZX84C8V2	7.7	8.2	8.7	5	4.5	50
BZX84C7V5	7	7.5	7.9	5	4	50
BZX84C6V8	6.4	6.8	7.2	5	4.5	150
BZX84C6V2	5.8	6.2	6.6	5	4.8	200
BZX84C5V6	5.2	5.6	6	5	10	400
BZX84C5V1	4.8	5.1	5.4	5	30	480
BZX84C4V7	4.4	4.7	5	5	70	500
BZX84C4V3	4	4.3	4.6	5	80	500
BZX84C3V9	3.7	3.9	4.1	5	80	500
BZX84C3V6	3.4	3.6	3.8	5	80	500
BZX84C3V3	3.1	3.3	3.5	5	80	500
BZX84C3V0	2.8	3	3.2	5	80	500
BZX84C2V7	2.5	2.7	2.9	5	75	500
BZX84C2V4	2.2	2.4	2.6	5	85	600
BZT52-C39	37	39	41	5	50	300
BZT52-C36	34	36	38	5	40	250
BZT52-C33	31	33	35	5	40	250
BZT52-C30	28	30	32	5	35	250
BZT52-C27	25.1	27	28.9	5	30	250
BZT52-C24	22.8	24	25.6	5	28	220
BZT52-C22	20.8	22	23.3	5	25	220
BZT52-C20	18.8	20	21.2	5	20	220
BZT52-C18	16.8	18	19.1	5	18	170
BZT52-C16	15.3	16	17.1	5	13	170
BZT52-C15	13.8	15	15.6	5	11	110

Sheet1

BZT52-C13	12.4	13	14.1	5	9	110
BZT52-C12	11.4	12	12.7	5	7	90
BZT52-C11	10.4	11	11.6	5	6	70
BZT52-C10	9.4	10	10.6	5	5.2	70
BZT52-C9V1	8.5	9.1	9.6	5	4.8	50
BZT52-C8V2	7.7	8.2	8.7	5	4.5	50
BZT52-C7V5	7	7.5	7.9	5	4	50
BZT52-C6V8	6.4	6.8	7.2	5	4.5	150
BZT52-C6V2	5.8	6.2	6.6	5	4.8	200
BZT52-C5V6	5.2	5.6	6	5	10	400
BZT52-C5V1	4.8	5.1	5.4	5	30	480
BZT52-C4V7	4.4	4.7	5	5	70	500
BZT52-C4V3	4	4.3	4.6	5	80	500
BZT52-C3V9	3.7	3.9	4.1	5	80	500
BZT52-C3V6	3.4	3.6	3.8	5	80	500
BZT52-C3V3	3.1	3.3	3.5	5	80	500
BZT52-C3V0	2.8	3	3.2	5	80	500
BZT52-C2V7	2.5	2.7	2.9	5	75	500
BZT52-C2V4	2.2	2.4	2.6	5	85	600
MM3Z75VB	70	75	79	2.5	250	470
MM3Z68VB	64	68	72	2.5	200	447
MM3Z62VB	58	62	66	2.5	150	423
MM3Z56VB	52	56	60	2.5	135	400
MM3Z51VB	48	51	54	5	70	376
MM3Z47VB	44	47	50	5	70	353
MM3Z43VB	40	43	46	5	60	353
MM3Z39VB	37	39	41	5	100	329
MM3Z5V1B	5	5.1	5.2	5	130	451
MM3Z4V7B	4.6	4.7	4.8	5	130	470
MM3Z4V3B	4.2	4.3	4.4	5	130	576
MM3Z3V9B	3.9	3.9	4.2	5	130	576
MM3Z3V6B	3.6	3.6	3.8	5	130	576
MM3Z3V3B	3.3	3.3	3.6	5	130	576
MM3Z3V0B	3	3	3.3	5	120	576
MM3Z2V7B	2.7	2.7	3	5	110	576
MM3Z2V4B	2.3	2.4	2.7	5	100	576
BZT52-C75S	70	75	79	2.5	250	1000
BZT52-C68S	64	68	72	2.5	200	1000

Sheet1

BZT52-C62S	58	62	66	2.5	150	1000
BZT52-C56S	52	56	60	2.5	135	1000
BZT52-C51S	48	51	54	5	70	750
BZT52-C47S	44	47	50	5	70	750
BZT52-C43S	40	43	46	5	60	700
BZT52-C39S	37	39	41	5	50	300
BZT52-C36S	34	36	38	5	40	250
BZT52-C33S	31	33	35	5	40	250
BZT52-C30S	28	30	32	5	35	250
BZT52-C27S	25.1	27	28.9	5	30	250
BZT52-C24S	22.8	24	25.6	5	28	220
BZT52-C22S	20.8	22	23.3	5	25	220
BZT52-C20S	18.8	20	21.2	5	20	220
BZT52-C18S	16.8	18	19.1	5	18	170
BZT52-C16S	15.3	16	17.1	5	13	170
BZT52-C15S	13.8	15	15.6	5	11	110
BZT52-C13S	12.4	13	14.1	5	9	110
BZT52-C12S	11.4	12	12.7	5	7	90
BZT52-C11S	10.4	11	11.6	5	6	70
BZT52-C10S	9.4	10	10.6	5	5.2	70
BZT52-C9V1S	8.5	9.1	9.6	5	4.8	50
BZT52-C8V2S	7.7	8.2	8.7	5	4.5	50
BZT52-C7V5S	7	7.5	7.9	5	4	50
BZT52-C6V8S	6.4	6.8	7.2	5	4.5	150
BZT52-C6V2S	5.8	6.2	6.6	5	4.8	200
BZT52-C5V6S	5.2	5.6	6	5	10	400
BZT52-C5V1S	4.8	5.1	5.4	5	30	480
BZT52-C4V7S	4.4	4.7	5	5	70	500
BZT52-C4V3S	4	4.3	4.6	5	80	500
BZT52-C3V9S	3.7	3.9	4.1	5	80	500
BZT52-C3V6S	3.4	3.6	3.8	5	80	500
BZT52-C3V3S	3.1	3.3	3.5	5	80	500
BZT52-C3V0S	2.8	3	3.2	5	80	500
BZT52-C2V7S	2.5	2.7	2.9	5	75	500
BZT52-C2V4S	2.2	2.4	2.6	5	85	600
MM5Z75V	70	75	79	1	255	500
MM5Z68V	64	68	72	1	240	500
MM5Z62V	58	62	66	1	215	500

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MM5Z56V	52	56	60	1	200	500
MM5Z51V	48	51	54	1	180	500
MM5Z47V	44	47	50	1	170	500
MM5Z43V	40	43	46	1	150	500
MM5Z39V	37	39	41	2	130	500
MM5Z36V	34	36	38	2	90	500
MM5Z33V	31	33	35	2	80	300
MM5Z30V	28	30	32	2	80	300
MM5Z27V	25.1	27	28.9	2	80	300
MM5Z24V	22.8	24.2	25.6	2	70	120
MM5Z22V	20.8	22	23.3	22	55	100
MM5Z20V	18.8	20	21.2	2	55	100
MM5Z18V	16.8	18	19.1	2	45	80
MM5Z16V	15.3	16.2	17.1	2	40	80
MM5Z15V	14.3	15	15.8	5	30	80
MM5Z13V	12.4	13.3	14.1	5	30	80
MM5Z12V	11.4	12	12.7	5	25	80
MM5Z11V	10.4	11	11.6	5	20	160
MM5Z10V	9.4	10	10.6	5	20	160
MM5Z9V1	8.5	9.1	9.6	5	15	160
MM5Z8V2	7.7	8.2	8.7	5	15	160
MM5Z7V5	7	7.5	7.9	5	15	160
MM5Z6V8	6.4	6.8	7.2	5	15	160
MM5Z6V2	5.8	6.2	6.6	5	10	100
MM5Z5V6	5.2	5.6	6	5	40	200
MM5Z5V1	4.8	5.1	5.4	5	60	500
MM5Z4V7	4.4	4.7	5	5	80	800
MM5Z4V3	4	4.3	4.6	5	90	1000
MM5Z3V9	3.7	3.9	4.1	5	90	1000
MM5Z3V6	3.4	3.6	3.8	5	90	1000
MM5Z3V3	3.1	3.3	3.5	5	95	1000
MM5Z3V0	2.8	3	3.2	5	100	1000
MM5Z2V7	2.5	2.7	2.9	5	100	1000
MM5Z2V4	2.2	2.4	2.6	5	100	1000
1N5388B	-	200	-	5	480	1850
1N5387B	-	190	-	5	450	1850
1N5386B	-	180	-	5	430	1750
1N5385B	-	170	-	8	380	1750

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1N5384B	-	160	-	8	350	1650
1N5383B	-	150	-	8	330	1500
1N5382B	-	140	-	8	230	1500
1N5381B	-	130	-	10	190	1250
1N5380B	-	120	-	10	170	1150
1N5379B	-	110	-	12	125	1000
1N5378B	-	100	-	12	90	800
1N5377B	-	91	-	15	75	760
1N5376B	-	87	-	15	75	760
1N5375B	-	82	-	15	65	720
1N5374B	-	75	-	20	45	620
1N5373B	-	68	-	20	44	500
1N5372B	-	62	-	20	42	400
1N5371B	-	60	-	20	40	350
1N5370B	-	56	-	20	35	280
1N5369B	-	51	-	25	27	230
1N5368B	-	47	-	25	25	210
1N5367B	-	43	-	3	20	190
1N5366B	-	39	-	30	14	170
1N5365B	-	36	-	30	11	160
1N5364B	-	33	-	40	10	150
1N5363B	-	30	-	40	8	140
1N5362B	-	28	-	50	6	130
1N5361B	-	27	-	50	5	120
1N5360B	-	25	-	50	4	110
1N5359B	-	24	-	50	3.5	100
1N5358B	-	22	-	50	3.5	75
1N5357B	-	20	-	65	3	75
1N5356B	-	19	-	65	3	75
1N5355B	-	18	-	65	2.5	75
1N5354B	-	17	-	70	2.5	75
1N5353B	-	16	-	75	2.5	75
1N5352B	-	15	-	75	2.5	75
1N5351B	-	14	-	100	2.5	75
1N5350B	-	13	-	100	2.5	100
1N5349B	-	12	-	100	2.5	125
1N5348B	-	11	-	125	2.5	125
3EZ39	37.1	39	41	19	28	1000

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3EZ36	34.2	36	37.8	21	22	1000
3EZ33	31.4	33	34.7	23	20	1000
3EZ30	28.5	30	31.5	25	16	1000
3EZ28	26.6	28	29.4	27	12	750
3EZ27	25.7	27	28.4	28	10	750
3EZ24	22.8	24	25.2	31	9	750
3EZ22	20.9	22	23.1	34	8	750
3EZ20	19	20	21	37	7	750
3EZ19	18.1	19	20	40	7	750
3EZ18	17.1	18	18.9	42	6	750
3EZ17	16.2	17	17.9	44	6	750
3EZ16	15.2	16	16.8	47	5.5	700
3EZ15	14.3	15	15.8	50	5.5	700
3EZ14	13.3	14	14.7	53	5	700
3EZ13	12.4	13	13.7	58	4.5	700
3EZ12	11.4	12	12.6	63	4.5	700
3EZ11	10.5	11	11.6	68	4	700
2EZ39	37.1	39	41	12.8	30	1000
2EZ36	34.2	36	37.8	13.9	25	1000
2EZ33	31.4	33	34.7	15.1	23	1000
2EZ30	28.5	30	31.5	16.6	20	1000
2EZ28	26.6	28	29.4	17	19	750
2EZ27	25.7	27	28.4	18.5	18	750
2EZ24	22.8	24	25.2	20.8	13	750
2EZ22	20.9	22	23.1	22.8	12	750
2EZ20	19	20	21	25	11	750
2EZ19	18.1	19	20	26.3	11	750
2EZ18	17.1	18	18.9	27.8	10	750
2EZ17	16.2	17	17.9	29.4	9	750
2EZ16	15.2	16	16.8	31.2	8	700
2EZ15	14.3	15	15.8	33.4	7	700
2EZ14	13.3	14	14.7	35.7	5.5	700
2EZ13	12.4	13	13.7	38.5	5	700
2EZ12	11.4	12	12.6	41.5	4.5	700
2EZ11	10.5	11	11.6	45.5	4	700
1N5956B	-	200	-	1.9	1200	8000
1N5955B	-	180	-	2.1	900	7000
1N5954B	-	160	-	2.3	700	6500

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1N5953B	-	150	-	2.5	600	6000
1N5952B	-	130	-	2.9	450	5000
1N5951B	-	120	-	3.1	380	4500
1N5950B	-	110	-	3.4	300	4000
1N5949B	-	100	-	3.7	250	3100
1N5948B	-	91	-	4.1	200	3000
1N5947B	-	82	-	4.6	160	2500
1N5946B	-	75	-	5	140	2000
1N5945B	-	68	-	5.5	120	1700
1N5944B	-	62	-	6	100	1500
1N5943B	-	56	-	6.7	86	1300
1N5942B	-	51	-	7.3	70	1100
1N5941B	-	47	-	8	67	1000
1N5940B	-	43	-	8.7	53	950
1N5939B	-	39	-	9.6	45	900
1N5938B	-	36	-	10.4	38	850
1N5937B	-	33	-	11.4	33	800
1N5936B	-	30	-	12.5	28	750
1N5935B	-	27	-	13.9	23	700
1N5934B	-	24	-	15.6	19	700
1N5933B	-	22	-	17	17.5	650
1N5932B	-	20	-	18.7	14	650
1N5931B	-	18	-	20.8	12	650
1N5930B	-	16	-	23.4	10	600
1N5929B	-	15	-	25	9	600
1N5928B	-	13	-	28.8	7	550
1N5927B	-	12	-	31.2	6.5	550
1N5926B	-	11	-	34.1	5.5	550
Z330B	-	330	-	5	4000	9500
Z300B	-	300	-	5	3000	9000
Z270B	-	270	-	5	2500	8750
Z240B	-	240	-	5	2200	8500
Z220B	-	220	-	5	2000	8250
Z200B	-	200	-	5	1700	8000
Z190B	-	190	-	5	1500	7500
Z180B	-	180	-	5	1350	7000
Z170B	-	170	-	5	1200	6750
Z160B	-	160	-	5	1100	6500

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Z150B	-	150	-	5	1000	6000
Z140B	-	140	-	5	800	5500
Z135B	-	135	-	5	750	5250
Z130B	-	130	-	5	700	5000
Z120B	-	120	-	5	550	4500
Z115B	-	115	-	5	500	4250
Z110B	-	110	-	5	450	4000
1N4764	-	100	-	2.5	350	3000
1N4763	-	91	-	2.8	250	3000
1N4762	-	82	-	3	200	3000
1N4761	-	75	-	3.3	175	2000
1N4760	-	68	-	3.7	150	2000
1N4759	-	62	-	4	125	2000
1N4758	-	56	-	4.5	110	2000
1N4757	-	51	-	5	95	1500
1N4756	-	47	-	5.5	80	1500
1N4755	-	43	-	6	70	1500
1N4754	-	39	-	6.5	60	1000
1N4753	-	36	-	7	50	1000
1N4752	-	33	-	7.5	45	1000
1N4751	-	30	-	8.5	40	1000
1N4750	-	27	-	9.5	35	750
1N4749	-	24	-	10.5	25	750
1N4748	-	22	-	11.5	23	750
1N4747	-	20	-	12.5	22	750
1N4746	-	18	-	14	20	750
1N4745	-	16	-	15.5	16	700
1N4744	-	15	-	17	14	700
1N4743	-	13	-	19	10	700
1N4742	-	12	-	21	9	700
1N4741	-	11	-	23	8	700
1N4740	-	10	-	25	7	700
1N4739	-	9.1	-	28	5	700
1N4738	-	8.2	-	31	5	700
1N4737	-	7.5	-	34	4	700
1N4736	-	6.8	-	37	4	700
1N4735	-	6.2	-	41	2	700
1N4734	-	5.6	-	45	5	600

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1N4733	-	5.1	-	49	7	550
1N4732	-	4.7	-	53	8	500
1N4731	-	4.3	-	58	9	400
1N4730	-	3.9	-	64	9	400
1N4729	-	3.6	-	69	10	400
1N4728	-	3.3	-	76	10	400
BZX55C75	70	75	79	5	250	1500
BZX55C68	64	68	72	5	200	1000
BZX55C62	58	62	66	5	150	1000
BZX55C56	52	56	60	5	135	1000
BZX55C51	48	51	54	5	125	700
BZX55C47	44	47	50	5	110	700
BZX55C43	40	43	46	5	90	600
BZX55C39	37	39	41	5	90	500
BZX55C36	34	36	38	5	80	220
BZX55C33	31	33	35	5	80	220
BZX55C30	28	30	32	5	80	220
BZX55C27	25.1	27	28.9	5	80	220
BZX55C24	22.8	24	25.6	5	80	220
BZX55C22	20.8	22	23.3	5	55	220
BZX55C20	18.8	20	21.2	5	55	220
BZX55C18	16.8	18	19.1	5	50	170
BZX55C16	15.3	16	17.1	5	40	170
BZX55C15	13.8	15	15.6	5	30	110
BZX55C13	12.4	13	14.1	5	26	110
BZX55C12	11.4	12	12.7	5	20	90
BZX55C11	10.4	11	11.6	5	20	70
BZX55C10	9.4	10	10.6	5	15	70
BZX55C9V1	8.5	9.1	9.6	5	10	50
BZX55C8V2	7.7	8.2	8.7	5	7	50
BZX55C7V5	7	7.5	7.9	5	7	50
BZX55C6V8	6.4	6.8	7.2	5	8	150
BZX55C6V2	5.8	6.2	6.6	5	10	200
BZX55C5V6	5.2	5.6	6	5	25	450
BZX55C5V1	4.8	5.1	5.4	5	35	550
BZX55C4V7	4.4	4.7	5	5	60	600
BZX55C4V3	4	4.3	4.6	5	75	600
BZX55C3V9	3.7	3.9	4.1	5	85	600

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BZX55C3V6	3.4	3.6	3.8	5	85	600
BZX55C3V3	3.1	3.3	3.5	5	85	600
BZX55C3V0	2.8	3	3.2	5	85	600
BZX55C2V7	2.5	2.7	2.9	5	85	600
BZX55C2V4	2.28	2.4	2.56	5	85	600
1N5279B	-	180	-	0.7	2200	6000
1N5278B	-	170	-	0.7	1900	5500
1N5277B	-	160	-	0.8	1700	5500
1N5276B	-	150	-	0.9	1500	5000
1N5275B	-	140	-	0.9	1300	4500
1N5274B	-	130	-	1	1100	4500
1N5273B	-	120	-	1	950	4000
1N5272B	-	110	-	1.1	700	3000
1N5271B	-	100	-	1.3	500	2600
1N5270B	-	91	-	1.4	400	2300
1N5269B	-	87	-	1.4	370	2200
1N5268B	-	82	-	1.5	330	2000
1N5267B	-	75	-	1.7	270	1700
1N5266B	-	68	-	1.8	230	1600
1N5265B	-	62	-	2	185	1400
1N5264B	-	60	-	2.1	170	1400
1N5263B	-	56	-	2.2	150	1300
1N5262B	-	51	-	2.5	125	1100
1N5261B	-	47	-	2.7	105	1000
1N5260B	-	43	-	3	93	900
1N5259B	-	39	-	3.2	80	800
1N5258B	-	36	-	3.4	70	700
1N5257B	-	33	-	3.8	58	700
1N5256B	-	30	-	4.2	49	600
1N5255B	-	28	-	4.5	44	600
1N5254B	-	27	-	4.6	41	600
1N5253B	-	25	-	5	35	600
1N5252B	-	24	-	5.2	33	600
1N5251B	-	22	-	5.6	29	600
1N5250B	-	20	-	6.2	25	600
1N5249B	-	19	-	6.6	23	600
1N5248B	-	18	-	7	21	600
1N5247B	-	17	-	7.4	19	600

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1N5246B	-	16	-	7.8	17	600
1N5245B	-	15	-	8.5	16	600
1N5244B	-	14	-	9	15	600
1N5243B	-	13	-	9.5	13	600
1N5242B	-	12	-	20	30	600
1N5241B	-	11	-	20	22	600
1N5240B	-	10	-	20	17	600
1N5239B	-	9.1	-	20	10	600
1N5238B	-	8.7	-	20	8	600
1N5237B	-	8.2	-	20	8	500
1N5236B	-	7.5	-	20	6	500
1N5235B	-	6.8	-	20	5	750
1N5234B	-	6.2	-	20	7	1000
1N5233B	-	6	-	20	7	1600
1N5232B	-	5.6	-	20	11	1600
1N5231B	-	5.1	-	20	17	1600
1N5230B	-	4.7	-	20	19	1900
1N5229B	-	4.3	-	20	22	2000
1N5228B	-	3.9	-	20	23	1900
1N5227B	-	3.6	-	20	24	1700
1N5226B	-	3.3	-	20	28	1600
1N5225B	-	3	-	20	29	1600
1N5224B	-	2.8	-	20	30	1400
1N5223B	-	2.7	-	20	30	1300
1N5222B	-	2.5	-	20	30	1250
1N5221B	-	2.4	-	20	30	1200

Part Number	Max Reverse Leakage Current			VF	Surge Current TA=25°C		Package
	@ IZK mA	IR @ VR µA	V		mA	IR mA	
1	0.5	144	-	-	23.6	SMC	
1	0.5	137	-	-	25	SMC	
1	0.5	130	-	-	26.4	SMC	
1	0.5	122	-	-	28	SMC	
1	0.5	115	-	-	29.4	SMC	
1	0.5	108	-	-	31.6	SMC	
1	0.5	101	-	-	34	SMC	
1	0.5	93.6	-	-	36.6	SMC	
1	0.5	86.4	-	-	39.5	SMC	
1	0.5	79.2	-	-	43	SMC	
1	0.5	72	-	-	47.5	SMC	
1	0.5	65.5	-	-	52.5	SMC	
1	0.5	63	-	-	54.5	SMC	
1	0.5	59	-	-	58	SMC	
1	0.5	54	-	-	63	SMC	
1	0.5	49	-	-	70	SMC	
1	0.5	44.6	-	-	76	SMC	
1	0.5	43	-	-	79	SMC	
1	0.5	40.3	-	-	86	SMC	
1	0.5	36.7	-	-	93	SMC	
1	0.5	33.8	-	-	100	SMC	
1	0.5	31	-	-	11	SMC	
1	0.5	28.1	-	-	122	SMC	
1	0.5	25.9	-	-	132	SMC	
1	0.5	23.8	-	-	144	SMC	
1	0.5	21.6	-	-	158	SMC	
1	0.5	20.1	-	-	170	SMC	
1	0.5	19.4	-	-	176	SMC	
1	0.5	18	-	-	190	SMC	
1	0.5	17.3	-	-	198	SMC	
1	0.5	15.8	-	-	216	SMC	
1	0.5	14.4	-	-	237	SMC	
1	0.5	13.7	-	-	250	SMC	

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1	0.5	13	-	-	265	SMC
1	0.5	12.2	-	-	280	SMC
1	1	11.5	-	-	295	SMC
1	1	10.8	-	-	315	SMC
1	1	10.1	-	-	340	SMC
1	1	9.4	-	-	365	SMC
1	2	8.6	-	-	395	SMC
1	5	8	-	-	430	SMC
0.25	1	152	-	-	7	SMA
0.25	1	136.8	-	-	8	SMA
0.25	1	121.6	-	-	9	SMA
0.25	1	114	-	-	10	SMA
0.25	1	98.8	-	-	11	SMA
0.25	1	91.2	-	-	12	SMA
0.25	1	83.6	-	-	13	SMA
0.25	1	76	-	-	15	SMA
0.25	1	69.2	-	-	16	SMA
0.25	1	62.2	-	-	18	SMA
0.25	1	56	-	-	20	SMA
0.25	1	51.7	-	-	22	SMA
0.25	1	47.1	-	-	24	SMA
0.25	1	42.6	-	-	26	SMA
0.25	1	38.8	-	-	29	SMA
0.25	1	35.8	-	-	31	SMA
0.25	1	32.7	-	-	34	SMA
0.25	1	29.7	-	-	38	SMA
0.25	1	27.4	-	-	41	SMA
0.25	1	25.1	-	-	45	SMA
0.25	1	22.8	-	-	50	SMA
0.25	1	20.6	-	-	55	SMA
0.25	1	18.2	-	-	62	SMA
0.25	1	16.7	-	-	68	SMA
0.25	1	15.2	-	-	75	SMA
0.25	1	13.7	-	-	83	SMA
0.25	1	12.2	-	-	93	SMA
0.25	1	11.4	-	-	100	SMA
0.25	1	9.9	-	-	115	SMA
0.25	1	9.1	-	-	125	SMA

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0.25	1	8.4	-	-	136	SMA
0.25	5	8	-	-	150	SMA
0.5	5	7	-	-	164	SMA
0.5	5	6.5	-	-	182	SMA
0.5	5	6	-	-	200	SMA
1	5	5.2	-	-	220	SMA
0.25	1	152	1.2	200	-	MELF
0.25	1	136.8	1.2	200	-	MELF
0.25	1	121.6	1.2	200	-	MELF
0.25	1	114	1.2	200	-	MELF
0.25	1	98.8	1.2	200	-	MELF
0.25	1	91.2	1.2	200	-	MELF
0.25	1	83.6	1.2	200	-	MELF
0.25	1	76	1.2	200	-	MELF
0.25	1	69.2	1.2	200	-	MELF
0.25	1	62.2	1.2	200	-	MELF
0.25	1	56	1.2	200	-	MELF
0.25	1	51.7	1.2	200	-	MELF
0.25	1	74.1	1.2	200	-	MELF
0.25	1	42.6	1.2	200	-	MELF
0.25	1	38.8	1.2	200	-	MELF
0.25	1	35.8	1.2	200	-	MELF
0.25	1	32.7	1.2	200	-	MELF
0.25	1	29.7	1.2	200	-	MELF
0.25	1	27.4	1.2	200	-	MELF
0.25	1	25.1	1.2	200	-	MELF
0.25	1	22.8	1.2	200	-	MELF
0.25	1	20.6	1.2	200	-	MELF
0.25	1	18.2	1.2	200	-	MELF
0.25	1	16.7	1.2	200	-	MELF
0.25	1	15.2	1.2	200	-	MELF
0.25	1	13.7	1.2	200	-	MELF
0.25	1	12.2	1.2	200	-	MELF
0.25	1	11.4	1.2	200	-	MELF
0.25	1	9.9	1.2	200	-	MELF
0.25	1	9.1	1.2	200	-	MELF
0.25	1	8.4	1.2	200	-	MELF
0.25	5	8	1.2	200	-	MELF

Sheet1

0.5	5	7	1.2	200	-	MELF
0.5	5	6.5	1.2	200	-	MELF
0.5	5	6.8	1.2	200	-	MELF
1	5	5.2	1.2	200	-	MELF
1	5	4	1.2	200	-	MELF
1	5	3	1.2	200	-	MELF
1	5	2	1.2	200	-	MELF
1	5	1.5	1.2	200	-	MELF
1	5	1	1.2	200	-	MELF
1	25	1	1.2	200	-	MELF
1	75	1	1.2	200	-	MELF
1	100	1	1.2	200	-	MELF
0.25	0.5	152	-	-	7	SMA
0.25	0.5	136.8	-	-	8	SMA
0.25	0.5	121.6	-	-	9	SMA
0.25	0.5	114	-	-	10	SMA
0.25	0.5	98.8	-	-	11	SMA
0.25	0.5	91.2	-	-	12	SMA
0.25	0.5	83.6	-	-	13	SMA
0.25	0.5	76	-	-	15	SMA
0.25	0.5	69.2	-	-	16	SMA
0.25	0.5	62.2	-	-	18	SMA
0.25	0.5	56	-	-	20	SMA
0.25	0.5	51.7	-	-	22	SMA
0.25	0.5	47.1	-	-	24	SMA
0.25	0.5	42.6	-	-	27	SMA
0.25	0.5	38.8	-	-	29	SMA
0.25	0.5	35.8	-	-	32	SMA
0.25	0.5	32.7	-	-	35	SMA
0.25	0.5	29.7	-	-	38	SMA
0.25	0.5	27.4	-	-	42	SMA
0.25	0.5	25.1	-	-	45	SMA
0.25	0.5	22.8	-	-	50	SMA
0.25	0.5	20.6	-	-	56	SMA
0.25	0.5	18.2	-	-	63	SMA
0.25	0.5	16.7	-	-	68	SMA
0.25	0.5	15.2	-	-	75	SMA
0.25	0.5	13.7	-	-	83	SMA

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0.25	0.5	12.2	-	-	94	SMA
0.25	0.5	11.4	-	-	100	SMA
0.25	0.5	9.9	-	-	115	SMA
0.25	0.5	9.1	-	-	125	SMA
0.25	2.5	8.4	-	-	136	SMA
0.25	5	76	1.2	200	-	MELF
0.25	5	69.2	1.2	200	-	MELF
0.25	5	62.2	1.2	200	-	MELF
0.25	5	56	1.2	200	-	MELF
0.25	5	51.7	1.2	200	-	MELF
0.25	5	47.1	1.2	200	-	MELF
0.25	5	42.6	1.2	200	-	MELF
0.25	5	38.8	1.2	200	-	MELF
0.25	5	35.8	1.2	200	-	MELF
0.25	5	32.7	1.2	200	-	MELF
0.25	5	29.7	1.2	200	-	MELF
0.25	5	27.4	1.2	200	-	MELF
0.25	5	25.1	1.2	200	-	MELF
0.25	5	22.8	1.2	200	-	MELF
0.25	5	20.6	1.2	200	-	MELF
0.25	5	18.2	1.2	200	-	MELF
0.25	5	16.7	1.2	200	-	MELF
0.25	5	15.2	1.2	200	-	MELF
0.25	5	13.7	1.2	200	-	MELF
0.25	5	12.2	1.2	200	-	MELF
0.25	5	11.4	1.2	200	-	MELF
0.25	5	9.9	1.2	200	-	MELF
0.25	5	9.1	1.2	200	-	MELF
0.25	5	8.4	1.2	200	-	MELF
0.25	10	7.6	1.2	200	-	MELF
0.5	10	7	1.2	200	-	MELF
0.5	10	6	1.2	200	-	MELF
0.5	10	5	1.2	200	-	MELF
1	10	4	1.2	200	-	MELF
1	10	3	1.2	200	-	MELF
1	10	2	1.2	200	-	MELF
1	10	1	1.2	200	-	MELF
1	10	1	1.2	200	-	MELF

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1	50	1	1.2	200	-	MELF
1	100	1	1.2	200	-	MELF
1	100	1	1.2	200	-	MELF
1	150	1	1.2	200	-	MELF
0.25	0.1	29.7	1.1	50	-	SMA
0.25	0.1	27.4	1.1	50	-	SMA
0.25	0.1	25.1	1.1	50	-	SMA
0.25	0.1	22.8	1.1	50	-	SMA
0.25	0.1	20.6	1.1	50	-	SMA
0.25	0.1	18.2	1.1	50	-	SMA
0.25	0.1	16.7	1.1	50	-	SMA
0.25	0.1	15.2	1.1	50	-	SMA
0.25	0.1	13.7	1.1	50	-	SMA
0.25	0.1	12.2	1.1	50	-	SMA
0.25	0.1	11.4	1.1	50	-	SMA
0.25	0.1	9.9	1.1	50	-	SMA
0.25	0.1	9.1	1.1	50	-	SMA
0.25	0.1	8.4	1.1	50	-	SMA
0.25	0.1	56	1	20	-	MINI-MELF
0.25	0.1	52	1	20	-	MINI-MELF
0.25	0.1	47	1	20	-	MINI-MELF
0.25	0.1	46	1	20	-	MINI-MELF
0.25	0.1	43	1	20	-	MINI-MELF
0.25	0.1	39	1	20	-	MINI-MELF
0.25	0.1	36	1	20	-	MINI-MELF
0.25	0.1	33	1	20	-	MINI-MELF
0.25	0.1	30	1	20	-	MINI-MELF
0.25	0.1	27	1	20	-	MINI-MELF
0.25	0.1	25	1	20	-	MINI-MELF
0.25	0.1	23	1	20	-	MINI-MELF
0.25	0.1	21	1	20	-	MINI-MELF
0.25	0.1	21	1	20	-	MINI-MELF
0.25	0.1	19	1	20	-	MINI-MELF
0.25	0.1	18	1	20	-	MINI-MELF
0.25	0.1	17	1	20	-	MINI-MELF
0.25	0.1	15	1	20	-	MINI-MELF
0.25	0.1	14	1	20	-	MINI-MELF
0.25	0.1	14	1	20	-	MINI-MELF

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0.25	0.1	13	1	20	-	MINI-MELF
0.25	0.1	12	1	20	-	MINI-MELF
0.25	0.1	11	1	20	-	MINI-MELF
0.25	0.1	10	1	20	-	MINI-MELF
0.25	0.5	9.9	1	20	-	MINI-MELF
0.25	1	9.1	1	20	-	MINI-MELF
0.25	2	8.4	1	20	-	MINI-MELF
0.25	3	8	1	20	-	MINI-MELF
0.25	3	7	1	20	-	MINI-MELF
0.25	3	6.5	1	20	-	MINI-MELF
0.25	3	6.5	1	20	-	MINI-MELF
0.25	3	6	1	20	-	MINI-MELF
0.25	3	5	1	20	-	MINI-MELF
0.25	3	4	1	20	-	MINI-MELF
0.25	5	3.5	1	20	-	MINI-MELF
0.25	5	3	1	20	-	MINI-MELF
0.25	5	2	1	20	-	MINI-MELF
0.25	5	2	1	20	-	MINI-MELF
0.25	5	1	1	20	-	MINI-MELF
0.25	10	1	1	20	-	MINI-MELF
0.25	15	1	1	20	-	MINI-MELF
0.25	25	1	1	20	-	MINI-MELF
0.25	50	1	1	20	-	MINI-MELF
-	0.2	91	0.9	10	-	SOD-123
-	0.2	84	0.9	10	-	SOD-123
-	0.2	76	0.9	10	-	SOD-123
-	0.2	69	0.9	10	-	SOD-123
-	0.2	63	0.9	10	-	SOD-123
-	0.2	57	0.9	10	-	SOD-123
-	0.2	52	0.9	10	-	SOD-123
-	0.2	47	0.9	10	-	SOD-123
-	1	43	0.9	10	-	SOD-123
-	1	39	0.9	10	-	SOD-123
-	2	36	0.9	10	-	SOD-123
-	2	33	0.9	10	-	SOD-123
-	2	30	0.9	10	-	SOD-123
-	0.1	27	0.9	10	-	SOD-123
-	0.1	25	0.9	10	-	SOD-123

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-	0.1	23	0.9	10	-	SOD-123
-	0.1	21	0.9	10	-	SOD-123
-	0.1	19	0.9	10	-	SOD-123
-	0.1	17	0.9	10	-	SOD-123
-	0.1	15	0.9	10	-	SOD-123
-	0.1	13	0.9	10	-	SOD-123
-	0.1	12	0.9	10	-	SOD-123
-	0.1	11	0.9	10	-	SOD-123
-	0.1	10	0.9	10	-	SOD-123
-	0.1	9	0.9	10	-	SOD-123
-	0.1	8	0.9	10	-	SOD-123
-	0.1	7	0.9	10	-	SOD-123
-	0.5	6	0.9	10	-	SOD-123
-	0.5	5	0.9	10	-	SOD-123
-	0.5	4	0.9	10	-	SOD-123
-	0.5	3.5	0.9	10	-	SOD-123
-	1	3	0.9	10	-	SOD-123
-	1	2.5	0.9	10	-	SOD-123
-	2	1.5	0.9	10	-	SOD-123
-	2	1	0.9	10	-	SOD-123
-	5	1	0.9	10	-	SOD-123
-	5	1	0.9	10	-	SOD-123
-	10	1	0.9	10	-	SOD-123
-	20	1	0.9	10	-	SOD-123
-	50	1	0.9	10	-	SOD-123
-	120	1	0.9	10	-	SOD-123
-	120	1	0.9	10	-	SOD-123
-	120	0.7	0.9	10	-	SOD-123
-	120	0.5	0.9	10	-	SOD-123
0.25	0.1	30	1	20	-	SOD-123
0.25	0.1	27	1	20	-	SOD-123
0.25	0.1	25	1	20	-	SOD-123
0.25	0.1	23	1	20	-	SOD-123
0.25	0.1	21	1	20	-	SOD-123
0.25	0.1	21	1	20	-	SOD-123
0.25	0.1	18	1	20	-	SOD-123
0.25	0.1	17	1	20	-	SOD-123
0.25	0.1	15	1	20	-	SOD-123

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0.25	0.1	14	1	20	-	SOD-123
0.25	0.1	12	1	20	-	SOD-123
0.25	0.1	11	1	20	-	SOD-123
0.25	0.5	9.9	1	20	-	SOD-123
0.25	1	9.1	1	20	-	SOD-123
0.25	2	8.4	1	20	-	SOD-123
0.25	3	8	1	20	-	SOD-123
0.25	3	7	1	20	-	SOD-123
0.25	3	6.5	1	20	-	SOD-123
0.25	3	6	1	20	-	SOD-123
0.25	3	5	1	20	-	SOD-123
0.25	5	4	1	20	-	SOD-123
0.25	5	3	1	20	-	SOD-123
0.25	5	2	1	20	-	SOD-123
0.25	5	2	1	20	-	SOD-123
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1	2	1	1	100	-	DO-35
1	2	1	1	100	-	DO-35
1	4	1	1	100	-	DO-35
1	10	1	1	100	-	DO-35
1	50	1	1	100	-	DO-35
0.25	0	135	1.1	200	-	DO-35
0.25	0	127	1.1	200	-	DO-35
0.25	0	120	1.1	200	-	DO-35
0.25	0	113	1.1	200	-	DO-35
0.25	0	105	1.1	200	-	DO-35
0.25	0	98	1.1	200	-	DO-35
0.25	0	90	1.1	200	-	DO-35
0.25	0	83	1.1	200	-	DO-35
0.25	0	75	1.1	200	-	DO-35
0.25	0	69	1.1	200	-	DO-35
0.25	0	68	1.1	200	-	DO-35
0.25	0	62	1.1	200	-	DO-35
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0.25	0	52	1.1	200	-	DO-35
0.25	0	47	1.1	200	-	DO-35
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0.25	0	43	1.1	200	-	DO-35
0.25	0	39	1.1	200	-	DO-35
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0.25	0	27	1.1	200	-	DO-35
0.25	0	25	1.1	200	-	DO-35
0.25	0	23	1.1	200	-	DO-35
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0.25	0	14	1.1	200	-	DO-35
0.25	0	14	1.1	200	-	DO-35
0.25	0	13	1.1	200	-	DO-35

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0.25	0	12	1.1	200	-	DO-35
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0.25	0	10	1.1	200	-	DO-35
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0.25	3	6.5	1.1	200	-	DO-35
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0.25	3	5	1.1	200	-	DO-35
0.25	5	4	1.1	200	-	DO-35
0.25	5	3.5	1.1	200	-	DO-35
0.25	5	3	1.1	200	-	DO-35
0.25	5	2	1.1	200	-	DO-35
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0.25	10	1	1.1	200	-	DO-35
0.25	15	1	1.1	200	-	DO-35
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0.25	75	1	1.1	200	-	DO-35
0.25	75	1	1.1	200	-	DO-35
0.25	100	1	1.1	200	-	DO-35
0.25	100	1	1.1	200	-	DO-35