



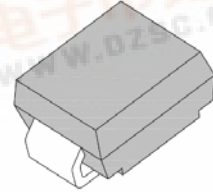
5.0W Surface Mount Zener Diodes

Z5SMB5333B - Z5SMB5388B

5.0W Surface Mount Zener Diodes

Features

- Complete Voltage Range 3.3 to 200V
- High peak reverse power dissipation
- High reliability
- Low leakage current
- RoHS Compliant



SMB
(DO-214AA)



Mechanical Data

Case:	SMB (DO-214AA) molded plastic
Epoxy:	Plastic package has UL flammability 94V-0
Lead:	Lead formed for surface mount
Polarity:	Color band denotes cathode end
Weight:	0.093 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
P_D	DC Power dissipation	5.0	W	T _L =75 °C (Note)
V_F	Max. Forward Voltage drop	1.2	V	I _F =200mA
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to 150	°C	

Note: T_L= Lead temperature at 5.0mm x 5.0mm (0.013mm thick) copper land areas

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Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Part NO.	Marking Code	Nominal Zener Voltage @ IZT				Max. Zener Impedance (Ω)			Max. Reverse Leakage Current IR @ VR		Max. DC Zener Current IZM(mA)
		Vz(V)			IZT(mA)	ZzT @ IZT	Zzk @ Izk	Izk(mA)	IR (μ A)	VR(V)	
		Nom.	Min.	Max.							
Z5SMB5333B	333B	3.3	3.1	3.5	380	3.0	400	1.0	300	1.0	1440
Z5SMB5334B	334B	3.6	3.4	3.8	350	2.5	500	1.0	150	1.0	1320
Z5SMB5335B	335B	3.9	3.7	4.1	320	2.0	500	1.0	50	1.0	1220
Z5SMB5336B	336B	4.3	4.1	4.5	290	2.0	500	1.0	10	1.0	1100
Z5SMB5337B	337B	4.7	4.5	4.9	260	2.0	450	1.0	5.0	1.0	1010
Z5SMB5338B	338B	5.1	4.8	5.4	240	1.5	400	1.0	1.0	1.0	930
Z5SMB5339B	339B	5.6	5.3	5.9	220	1.0	400	1.0	1.0	2.0	856
Z5SMB5340B	340B	6.0	5.7	6.3	200	1.0	300	1.0	1.0	3.0	790
Z5SMB5341B	341B	6.2	5.9	6.5	200	1.0	200	1.0	1.0	4.0	765
Z5SMB5342B	342B	6.8	6.5	7.1	175	1.0	200	1.0	10	4.9	700
Z5SMB5343B	343B	7.5	7.1	7.9	175	1.0	200	1.0	10	5.4	630
Z5SMB5344B	344B	8.2	7.8	8.6	150	1.0	200	1.0	10	5.9	580
Z5SMB5345B	345B	8.7	8.3	9.1	150	1.0	200	1.0	10	6.3	545
Z5SMB5346B	346B	9.1	8.7	9.6	150	2.0	150	1.0	7.5	6.6	520
Z5SMB5347B	347B	10	9.5	10.5	125	2.0	125	1.0	5.0	7.2	475
Z5SMB5348B	348B	11	10.5	11.6	125	2.0	125	1.0	5.0	8.0	430
Z5SMB5349B	349B	12	11.4	12.6	100	2.5	125	1.0	2.0	8.6	395
Z5SMB5350B	350B	13	12.4	13.7	100	2.5	100	1.0	1.0	9.4	365
Z5SMB5351B	351B	14	13.3	14.7	100	2.5	75	1.0	1.0	10.1	340
Z5SMB5352B	352B	15	14.3	15.8	75	2.5	75	1.0	1.0	10.8	315
Z5SMB5353B	353B	16	15.2	16.8	75	2.5	75	1.0	1.0	11.5	295
Z5SMB5354B	354B	17	16.2	17.9	70	2.5	75	1.0	0.5	12.2	280
Z5SMB5355B	355B	18	17.1	18.9	65	2.5	75	1.0	0.5	13.0	265
Z5SMB5356B	356B	19	18.1	20.0	65	3.0	75	1.0	0.5	13.7	250
Z5SMB5357B	357B	20	19.0	21.0	65	3.0	75	1.0	0.5	14.4	237
Z5SMB5358B	358B	22	20.9	23.1	50	3.5	75	1.0	0.5	15.8	216
Z5SMB5359B	359B	24	22.8	25.2	50	3.5	100	1.0	0.5	17.3	198
Z5SMB5360B	360B	25	23.8	26.3	50	4.0	110	1.0	0.5	18.0	190
Z5SMB5361B	361B	27	25.7	28.4	50	5.0	120	1.0	0.5	19.4	176
Z5SMB5362B	362B	28	26.6	29.4	50	6.0	130	1.0	0.5	20.1	170
Z5SMB5363B	363B	30	28.5	31.5	40	8.0	140	1.0	0.5	21.6	158
Z5SMB5364B	364B	33	31.4	34.7	40	10	150	1.0	0.5	23.8	144

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Part NO.	Marking Code	Nominal Zener Voltage @ I _{ZT}				Max. Zener Impedance (Ω)			Max. Reverse Leakage Current I _R @ V _R		Max. DC Zener Current
		V _Z (V)			I _{ZT} (mA)	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK} (mA)	I _R (μA)	V _R (V)	I _{ZM} (mA)
		Nom.	Min.	Max.							
Z5SMB5365B	365B	36	34.2	37.8	30	11	160	1.0	0.5	25.9	132
Z5SMB5366B	366B	39	37.1	41.0	30	14	170	1.0	0.5	28.1	122
Z5SMB5367B	367B	43	40.9	45.2	30	20	190	1.0	0.5	31.0	110
Z5SMB5368B	368B	47	44.7	49.4	25	25	210	1.0	0.5	33.8	100
Z5SMB5369B	369B	51	48.5	53.6	25	27	230	1.0	0.5	36.7	93.0
Z5SMB5370B	370B	56	53.2	58.8	20	35	280	1.0	0.5	40.3	86.0
Z5SMB5371B	371B	60	57.0	63.0	20	40	350	1.0	0.5	43.0	79.0
Z5SMB5372B	372B	62	58.9	65.1	20	42	400	1.0	0.5	44.6	76.0
Z5SMB5373B	373B	68	64.6	71.4	20	44	500	1.0	0.5	49.0	70.0
Z5SMB5374B	374B	75	71.3	78.8	20	45	620	1.0	0.5	54.0	63.0
Z5SMB5375B	375B	82	77.9	86.1	15	65	720	1.0	0.5	59.0	58.0
Z5SMB5376B	376B	87	82.7	91.4	15	75	760	1.0	0.5	63.0	54.5
Z5SMB5377B	377B	91	86.5	95.6	15	75	760	1.0	0.5	65.5	52.5
Z5SMB5378B	378B	100	95.0	105.0	12	90	800	1.0	0.5	72.0	47.5
Z5SMB5379B	379B	110	104.5	115.5	12	125	1000	1.0	0.5	79.2	43.0
Z5SMB5380B	380B	120	114.0	126.0	10	170	1150	1.0	0.5	86.4	39.5
Z5SMB5381B	381B	130	123.5	136.5	10	190	1250	1.0	0.5	93.2	36.6
Z5SMB5382B	382B	140	133.0	147.0	8.0	230	1500	1.0	0.5	101	34.0
Z5SMB5383B	383B	150	142.5	157.5	8.0	330	1500	1.0	0.5	108	31.6
Z5SMB5384B	384B	160	152.0	168.0	8.0	350	1650	1.0	0.5	115	29.4
Z5SMB5385B	385B	170	161.5	178.5	8.0	380	1750	1.0	0.5	122	28.0
Z5SMB5386B	386B	180	171.0	189.0	5.0	430	1750	1.0	0.5	130	26.4
Z5SMB5387B	387B	190	180.5	199.5	5.0	450	1850	1.0	0.5	137	25.0
Z5SMB5388B	388B	200	190.0	210.0	5.0	480	1850	1.0	0.5	144	23.6

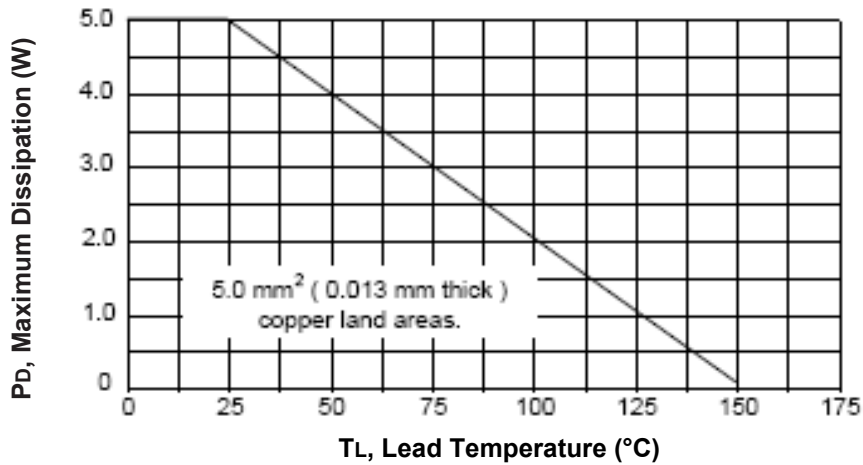
Note: Suffix “B” indicates ±5% tolerance; suffix “A” indicates ±10% tolerance.

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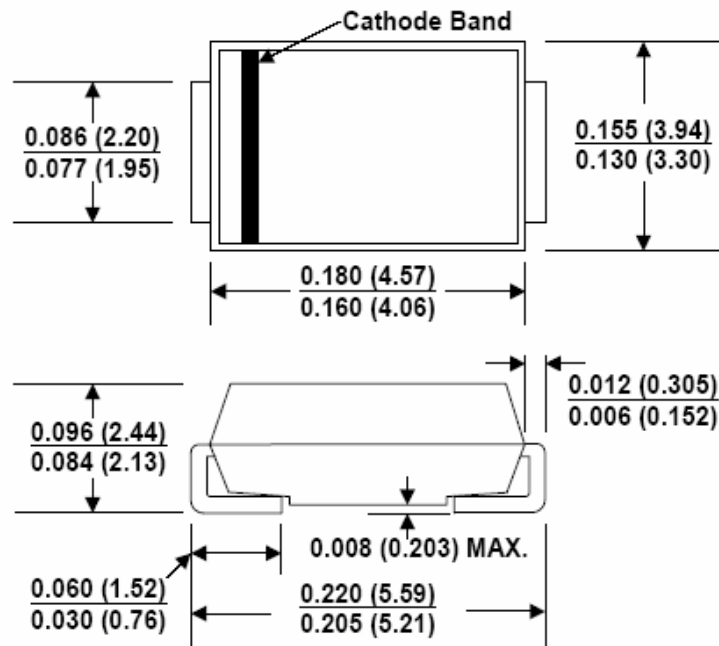
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Typical Characteristics Curves

Fig.1- Power Temperature Derating Curve



Dimensions in inch (mm)

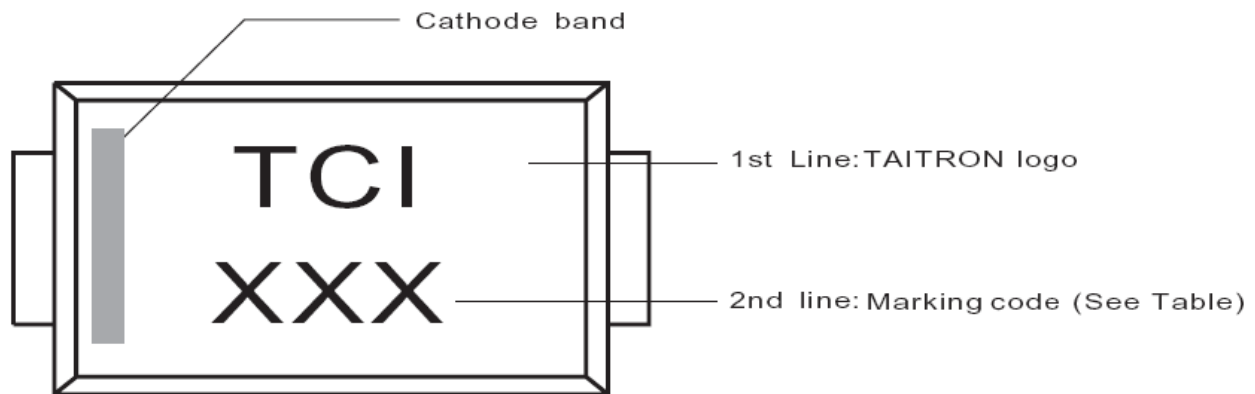


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