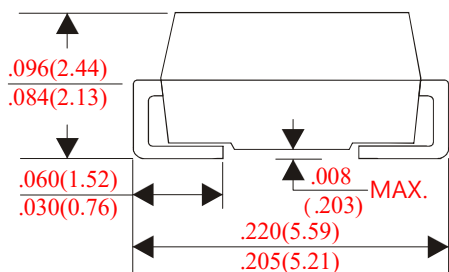
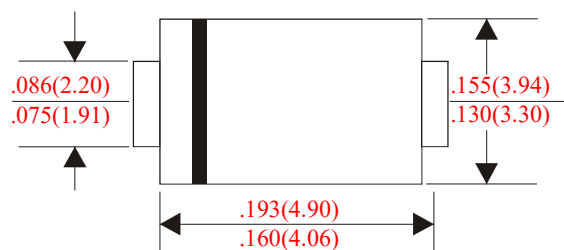


OUTLINE

SMB (DO-214AA)



Dimensions in inches and (millimeters)

FEATURES

- Low inductance.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- High temperature soldering guaranteed 260°C / 10 Seconds, at terminals.
- Lead free in compliance with EU RoHS.

MECHANICAL DATA

- Case: Molded plastic, SMB(DO-214AA)
- Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.0032 ounce, 0.092 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Rating	Symbols	Value	Units
Power Dissipation $T_A=75^\circ\text{C}$ Measure at Zero Lead Length Derate above 75°C (NOTE 1)	P_D	5000	mW
Operating Junction Temperature Range	T_J	$-55 \sim +150$	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	$-55 \sim +150$	$^\circ\text{C}$

NOTE :

1. Mounted on a FR4 PCB, single-sided copper, mini pad.

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 POWER DERATING CURVE

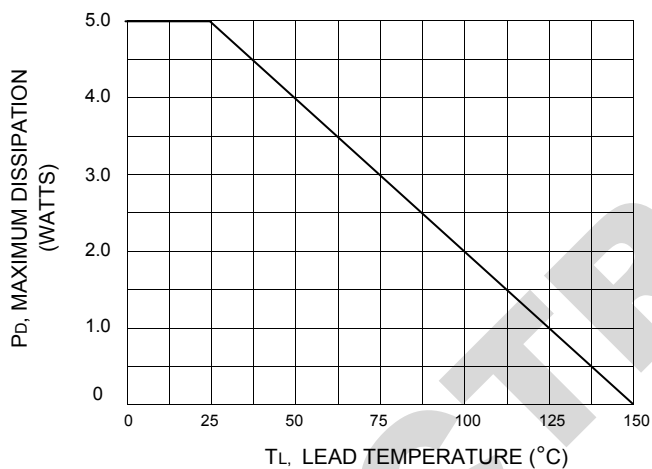
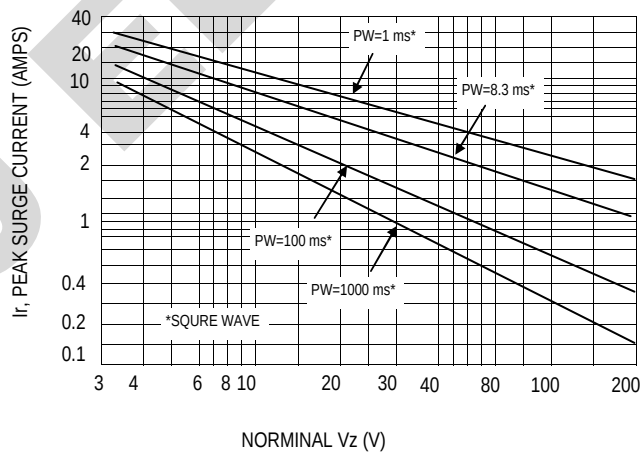


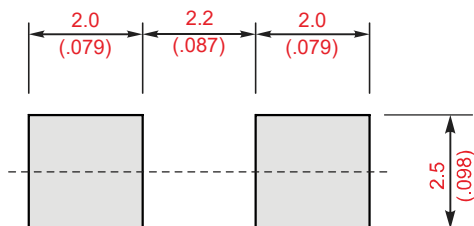
Fig.2 Maximum Non-Repetitive Surg Current versus Nominal Zener Voltage



5W Surface Mount Zener Diodes 1SMB5333B SERIES

TYPE	Regulator Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum Zener Current	Maximum Surge Current	Maximum Voltage
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$		I_{ZM}	I_{ZSM}	Regulator
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(A)	ΔV_Z
1SMB5333B	3.3	380	3.0	400	1.0	300	1.0	1440	20.0	0.85
1SMB5334B	3.6	350	2.5	500	1.0	150	1.0	1320	18.7	0.80
1SMB5335B	3.9	320	2.0	500	1.0	50	1.0	1220	17.6	0.54
1SMB5336B	4.3	290	2.0	500	1.0	10	1.0	1100	16.4	0.49
1SMB5337B	4.7	260	2.0	450	1.0	5.0	1.0	1010	15.3	0.44
1SMB5338B	5.1	240	1.5	400	1.0	1.0	1.0	930	14.4	0.39
1SMB5339B	5.6	220	1.0	400	1.0	1.0	2.0	856	13.4	0.25
1SMB5340B	6.0	200	1.0	300	1.0	1.0	3.0	790	12.7	0.19
1SMB5341B	6.2	200	1.0	200	1.0	1.0	3.0	765	12.4	0.10
1SMB5342B	6.8	175	1.0	200	1.0	10	5.2	700	11.5	0.15
1SMB5343B	7.5	175	1.5	200	1.0	10	5.7	630	10.7	0.15
1SMB5344B	8.2	150	1.5	200	1.0	10	6.2	580	10.0	0.20
1SMB5345B	8.7	150	2.0	200	1.0	10	6.6	545	9.5	0.20
1SMB5346B	9.1	150	2.0	150	1.0	7.5	6.9	520	9.2	0.22
1SMB5347B	10	125	2.0	125	1.0	5.0	7.6	475	8.6	0.22
1SMB5348B	11	125	2.5	125	1.0	5.0	8.4	430	8.0	0.25
1SMB5349B	12	100	2.5	125	1.0	2.0	9.1	395	7.5	0.25
1SMB5350B	13	100	2.5	100	1.0	1.0	9.9	365	7.0	0.25
1SMB5351B	14	100	2.5	75	1.0	1.0	10.6	340	6.7	0.25
1SMB5352B	15	75	2.5	75	1.0	1.0	11.5	315	6.3	0.25
1SMB5353B	16	75	2.5	75	1.0	1.0	12.2	295	6.0	0.30
1SMB5354B	17	70	2.5	75	1.0	0.5	12.9	280	5.8	0.35
1SMB5355B	18	65	2.5	75	1.0	0.5	13.7	265	5.5	0.40
1SMB5356B	19	65	3.0	75	1.0	0.5	14.4	250	5.3	0.40
1SMB5357B	20	65	3.0	75	1.0	0.5	15.2	237	5.1	0.40
1SMB5358B	22	50	3.5	75	1.0	0.5	16.7	216	4.7	0.45
1SMB5359B	24	50	3.5	100	1.0	0.5	18.2	198	4.4	0.55
1SMB5360B	25	50	4.0	110	1.0	0.5	19.0	190	4.3	0.55
1SMB5361B	27	50	5.0	120	1.0	0.5	20.6	176	4.1	0.60
1SMB5362B	28	50	6.0	130	1.0	0.5	21.2	170	3.9	0.60
1SMB5363B	30	40	8.0	140	1.0	0.5	22.8	158	3.7	0.60
1SMB5364B	33	40	10	150	1.0	0.5	25.1	144	3.5	0.60
1SMB5365B	36	30	11	160	1.0	0.5	27.4	132	3.3	0.65
1SMB5366B	39	30	14	170	1.0	0.5	29.7	122	3.1	0.65
1SMB5367B	43	30	20	190	1.0	0.5	32.7	110	2.8	0.70
1SMB5368B	47	25	25	210	1.0	0.5	35.8	100	2.7	0.80
1SMB5369B	51	25	27	230	1.0	0.5	38.8	93.0	2.5	0.90
1SMB5370B	56	20	35	280	1.0	0.5	42.6	86.0	2.3	1.00
1SMB5371B	60	20	40	350	1.0	0.5	45.5	79.0	2.2	1.20
1SMB5372B	62	20	42	400	1.0	0.5	47.1	76.0	2.1	1.35
1SMB5373B	68	20	44	500	1.0	0.5	51.7	70.0	2.0	1.50
1SMB5374B	75	20	45	620	1.0	0.5	56.0	63.0	1.9	1.60
1SMB5375B	82	15	65	720	1.0	0.5	62.2	58.0	1.8	1.80
1SMB5376B	87	15	75	760	1.0	0.5	66.0	54.5	1.7	2.00
1SMB5377B	91	15	75	760	1.0	0.5	69.2	52.5	1.6	2.20
1SMB5378B	100	12	90	800	1.0	0.5	76.0	47.5	1.5	2.30
1SMB5379B	110	12	125	1000	1.0	0.5	83.6	43.0	1.4	2.50
1SMB5380B	120	10	170	1150	1.0	0.5	91.2	39.5	1.3	2.50
1SMB5381B	130	10	190	1250	1.0	0.5	98.8	36.6	1.2	2.50
1SMB5382B	140	8.0	230	1500	1.0	0.5	106	34.0	1.2	2.50
1SMB5383B	150	8.0	330	1500	1.0	0.5	114	31.6	1.1	3.00
1SMB5384B	160	8.0	350	1650	1.0	0.5	122	29.4	1.1	3.00
1SMB5385B	170	8.0	380	1750	1.0	0.5	129	28.0	1.0	3.00
1SMB5386B	180	5.0	430	1750	1.0	0.5	137	26.4	1.0	4.00
1SMB5387B	190	5.0	450	1850	1.0	0.5	144	25.0	0.9	5.00
1SMB5388B	200	5.0	480	1850	1.0	0.5	152	23.6	0.9	5.00

The recommended mounting pad size



Unit: $\frac{\text{mm}}{\text{(inches)}}$

Marking Code

