SURFACE MOUNT SILICON ZENER DIODE

1SMB5334~1SMB5378

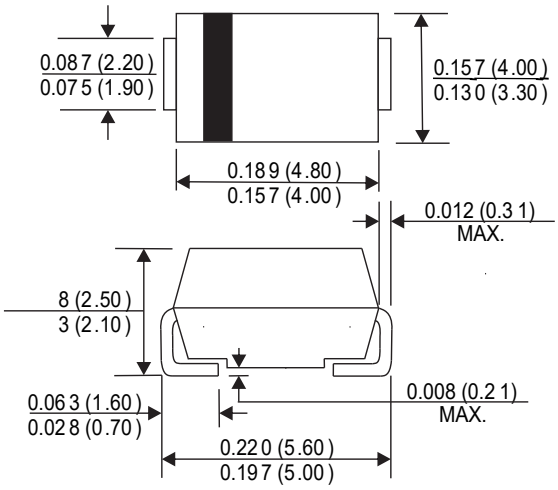
VOLTAGE: **3.6~100 Volts** CURRENT: **5.0 Watts**

SMB(DO-214AA)

RoHS COMPLIANT

FEATURES

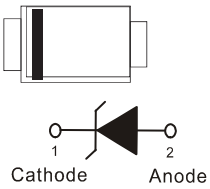
- For surface mounted applications in order to optimize board space.
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Pb free product are available : 99% Sn can meet RoHS environment substance directive request



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.0032 ounce, 0.092 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
DC Power Dissipation on T_L=75°C ,Measure at Zero Lead Length Derate above 75°C	P_D	5.0 67	Watts mW / °C
Operating Junction and StorageTemperature Range	T_J , T_{STG}	-55 to +150	°C

RATING AND CHARACTERISTIC CURVES

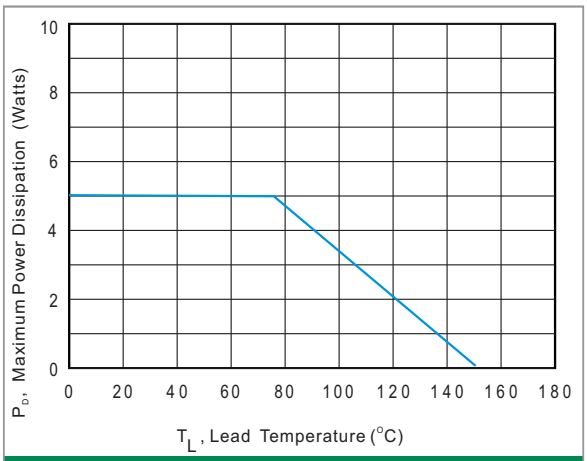


Fig.1 Power Temperature Derating Curve

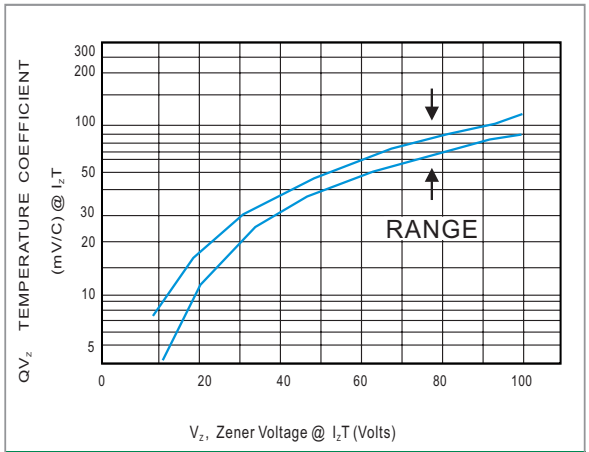


Fig.2 Temperature Coefficient-Range For units 10 to 100 volts

RoHS COMPLIANT

Part Number	Marking Code	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current	
		V_Z @ I_{ZT}			Z_{ZT} @ I_{ZT}		Z_{ZK} @ I_{ZK}		I_R @ V_R	
		Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V
1SMB5334	334B	3.6	3.42	3.78	3	350.0	500	1.00	150.00	1.00
1SMB5335	335B	3.9	3.71	4.10	2	320.0	500	1.00	50.00	1.00
1SMB5336	336B	4.3	4.09	4.52	2	290.0	500	1.00	10.00	1.00
1SMB5337	337B	4.7	4.47	4.94	2	260.0	450	1.00	10.00	1.00
1SMB5338	338B	5.1	4.85	5.36	2	240.0	400	1.00	10.00	1.00
1SMB5339	339B	5.6	5.32	5.88	1	220.0	400	1.00	10.00	2.00
1SMB5340	340B	6.0	5.70	6.30	1	200.0	300	1.00	10.00	3.00
1SMB5341	341B	6.2	5.89	6.51	1	200.0	200	1.00	10.00	3.00
1SMB5342	342B	6.8	6.46	7.14	1	175.0	200	1.00	10.00	5.20
1SMB5343	343B	7.5	7.13	7.88	2	175.0	200	1.00	10.00	5.70
1SMB5344	344B	8.2	7.79	8.61	2	150.0	200	1.00	10.00	6.20
1SMB5345	345B	8.7	8.27	9.14	2	150.0	200	1.00	10.00	6.60
1SMB5346	346B	9.1	8.65	9.56	2	150.0	150	1.00	7.50	6.90
1SMB5347	347B	10	9.50	10.50	2	125.0	125	1.00	5.00	7.60
1SMB5348	348B	11	10.45	11.55	3	125.0	125	1.00	5.00	8.40
1SMB5349	349B	12	11.40	12.60	3	100.0	125	1.00	2.00	9.10
1SMB5350	350B	13	12.35	13.65	3	100.0	100	1.00	1.00	9.90
1SMB5351	351B	14	13.30	14.70	3	100.0	75	1.00	1.00	10.60
1SMB5352	352B	15	14.25	15.75	3	75.0	75	1.00	1.00	11.50
1SMB5353	353B	16	15.20	16.80	3	75.0	75	1.00	1.00	12.20
1SMB5354	354B	17	16.15	17.85	3	70.0	75	1.00	0.50	12.90
1SMB5355	355B	18	17.10	18.90	3	65.0	75	1.00	0.50	13.70
1SMB5356	356B	19	18.05	19.95	3	65.0	75	1.00	0.50	14.40
1SMB5357	357B	20	19.00	21.00	3	65.0	75	1.00	0.50	15.20
1SMB5358	358B	22	20.90	23.10	4	50.0	75	1.00	0.50	16.70
1SMB5359	359B	24	22.80	25.20	4	50.0	100	1.00	0.50	18.20
1SMB5360	360B	25	23.75	26.25	4	50.0	110	1.00	0.50	19.00
1SMB5361	361B	27	25.65	28.35	5	50.0	120	1.00	0.50	20.60
1SMB5362	362B	28	26.60	29.40	6	50.0	130	1.00	0.50	21.20
1SMB5363	363B	30	28.50	31.50	8	40.0	140	1.00	0.50	22.80
1SMB5364	364B	33	31.35	34.65	10	40.0	150	1.00	0.50	25.10
1SMB5365	365B	36	34.20	37.80	11	30.0	160	1.00	0.50	27.40
1SMB5366	366B	39	37.05	40.95	14	30.0	170	1.00	0.50	29.70
1SMB5367	367B	43	40.85	45.15	20	30.0	190	1.00	0.50	32.70
1SMB5368	368B	47	44.65	49.35	25	25.0	210	1.00	0.50	35.80
1SMB5369	369B	51	48.45	53.55	27	25.0	230	1.00	0.50	38.80
1SMB5370	370B	56	53.20	58.80	35	20.0	280	1.00	0.50	42.60
1SMB5371	371B	60	57.00	63.00	40	20.0	350	1.00	0.50	45.50
1SMB5372	372B	62	58.90	65.10	42	20.0	400	1.00	0.50	47.10
1SMB5373	373B	68	64.60	71.40	44	20.0	500	1.00	0.50	51.70
1SMB5374	374B	75	71.25	78.75	45	20.0	620	1.00	0.50	56.00
1SMB5375	375B	82	77.90	86.10	60	15.0	720	1.00	0.50	62.20
1SMB5376	376B	87	82.65	91.35	75	15.0	760	1.00	0.50	66.00
1SMB5377	377B	91	86.45	95.55	75	15.0	760	1.00	0.50	69.20
1SMB5378	378B	100	95.00	105.00	90	12.0	800	1.00	0.50	76.00