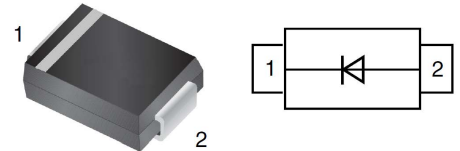


Surface Mount Silicon Zener Diodes in DO-214AA/SMB

Features

- 0.5mm pitch, leadless package
- SMD, leadless package
- 0.5mm pitch, leadless package
- SMD, leadless package
- Power dissipation: 5.0W (T_L = 50°C)
- Reverse voltage: 3.3V to 8.8V



Mechanical Data

- Case: DO-214AA
- Molding Compound Flammability Rating: V-0
- Terminals: 0.5mm pitch, leadless package

Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	UNIT
DC power dissipation at T _L = 50 °C ⁽¹⁾	P _D	5.0	W
Maximum forward voltage at I _F = 200 mA	V _F	1.5	V
Junction temperature range	T _J	- 55 to + 150	°C
Storage temperature range	T _{STG}	- 55 to + 150	°C

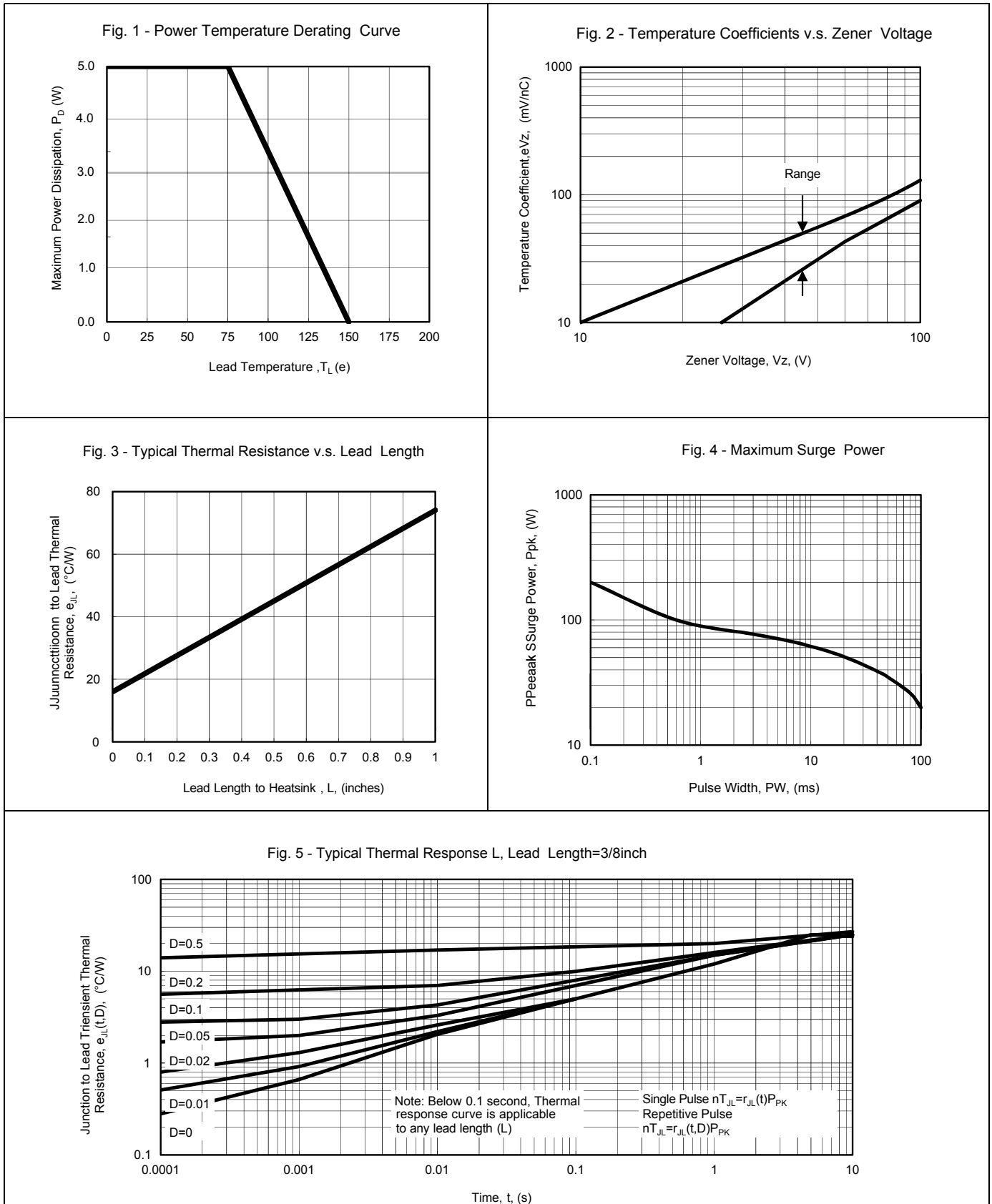
Note:

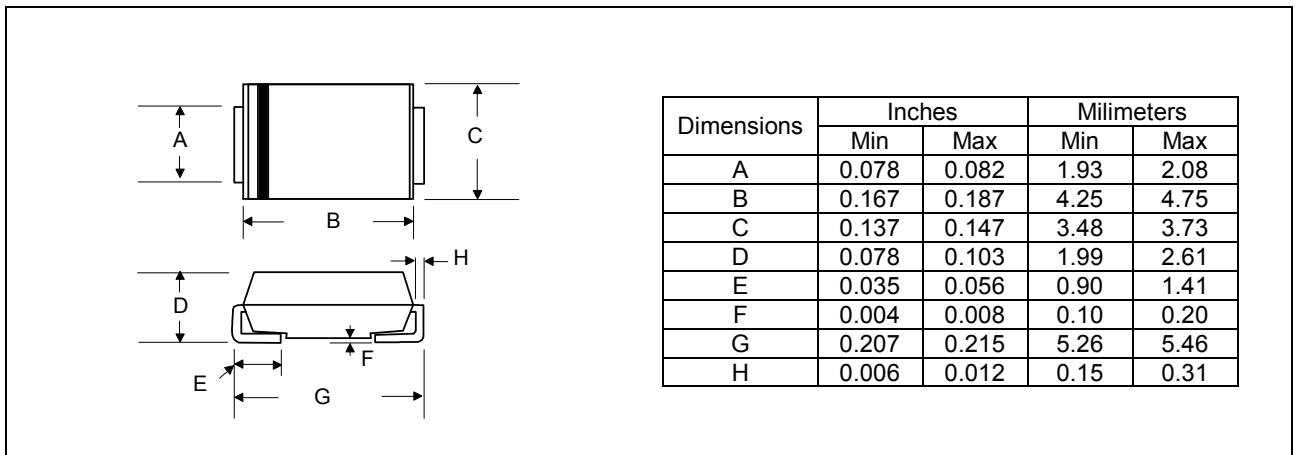
(1) T_L = Lead temperature at 3/8 " (9.5mm) from body

Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)

Part Number	REGULATOR VOLTAGE V_Z	TEST CURRENT I_Z	MAXIMUM DYNAMIC IMPEDANCE Z_{ZT}	MAXIMUM REVERSE CURRENT I_R	TEST VOLTAGE V_R	MAXIMUM REGULATOR CURRENT I_{ZM}	MAXIMUM DYNAMIC KNEE IMPEDANCE $Z_{ZK}@1.0\text{mA}$	MAXIMUM SURGE CURRENT I_{ZSM}	MAXIMUM VOLTAGE REGULATION
	VOLTS	mA	OHMS	μA	VOLTS	mA	OHMS	A	VOLTS
SMBJ5338B	5.1	240	1.5	1	1	930	400	14.4	0.39
SMBJ5339B	5.6	220	1	1	2	865	400	13.4	0.25
SMBJ5340B	6	200	1	1	3	790	300	12.7	0.19
SMBJ5341B	6.2	200	1	1	3	765	200	12.4	0.1
SMBJ5342B	6.8	175	1	10	5.2	700	200	11.5	0.15
SMBJ5343B	7.5	175	1.5	10	5.7	630	200	10.7	0.15
SMBJ5344B	8.2	150	1.5	10	6.2	580	200	10	0.2
SMBJ5345B	8.7	150	2	10	6.6	545	200	9.5	0.2
SMBJ5346B	9.1	150	2	7.5	6.9	520	150	9.2	0.22
SMBJ5347B	10	125	2	5	7.6	475	125	8.6	0.22
SMBJ5348B	11	125	2.5	5	8.4	430	125	8	0.25
SMBJ5349B	12	100	2.5	2	9.1	395	125	7.5	0.25
SMBJ5350B	13	100	2.5	1	9.9	365	100	7	0.25
SMBJ5351B	14	100	2.5	1	10.6	340	75	6.7	0.25
SMBJ5352B	15	75	2.5	1	11.5	315	75	6.3	0.25
SMBJ5353B	16	75	2.5	1	12.2	295	75	6	0.3
SMBJ5354B	17	70	2.5	0.5	12.9	280	75	5.8	0.35
SMBJ5355B	18	65	2.5	0.5	13.7	264	75	5.5	0.4
SMBJ5356B	19	65	3	0.5	14.4	250	75	5.3	0.4
SMBJ5357B	20	65	3	0.5	15.2	237	75	5.1	0.4
SMBJ5358B	22	50	3.5	0.5	16.7	216	75	4.7	0.45
SMBJ5359B	24	50	3.5	0.5	18.2	198	100	4.4	0.55
SMBJ5360B	25	50	4	0.5	19	190	110	4.3	0.55
SMBJ5361B	27	50	5	0.5	20.6	176	120	4.1	0.6
SMBJ5362B	28	50	6	0.5	21.2	170	130	3.9	0.6
SMBJ5363B	30	40	8	0.5	22.8	158	140	3.7	0.6
SMBJ5364B	33	40	10	0.5	25.1	144	150	3.5	0.6
SMBJ5365B	36	30	11	0.5	27.4	132	160	3.3	0.65
SMBJ5366B	39	30	14	0.5	29.7	122	170	3.1	0.65
SMBJ5367B	43	30	20	0.5	32.7	110	190	2.8	0.7
SMBJ5368B	47	25	25	0.5	35.8	100	210	2.7	0.8
SMBJ5369B	51	25	27	0.5	38.8	93	230	2.5	0.9
SMBJ5370B	56	20	35	0.5	42.6	86	280	2.3	1
SMBJ5371B	60	20	40	0.5	45.5	79	350	2.2	1.2
SMBJ5372B	62	20	42	0.5	47.1	76	400	2.1	1.35
SMBJ5373B	68	20	44	0.5	51.7	70	500	2	1.5
SMBJ5374B	75	20	45	0.5	56	63	620	1.9	1.6
SMBJ5375B	82	15	65	0.5	62.2	58	720	1.8	1.8
SMBJ5376B	87	15	75	0.5	66	54.5	760	1.7	2
SMBJ5377B	91	15	75	0.5	69.2	52.5	760	1.6	2.2
SMBJ5378B	100	12	90	0.5	76	47.5	800	1.5	2.3
SMBJ5379B	110	12	125	0.5	83.6	43	1000	1.4	2.5
SMBJ5380B	120	10	170	0.5	91.2	39.5	1150	1.3	2.5
SMBJ5381B	130	10	190	0.5	98.8	36.6	1250	1.2	2.5
SMBJ5382B	140	8.0	230	0.5	106	34	1500	1.2	2.5
SMBJ5383B	150	8.0	330	0.5	114	31.6	1500	1.1	3
SMBJ5384B	160	8.0	350	0.5	122	29.4	1650	1.1	3
SMBJ5385B	170	8.0	380	0.5	129	28	1750	1.0	3
SMBJ5386B	180	5.0	430	0.5	137	26.4	1750	1.0	4
SMBJ5387B	190	5.0	450	0.5	144	25	1850	0.9	5
SMBJ5388B	200	5.0	480	0.5	152	23.6	1850	0.9	5

Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
SMBJ53xxB	DO-214AA/SMB	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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