

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SMC5341B THRU SMC5388B

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE RANGE - 6.2 to 200 Volts

POWER - 5.0 Watts

FEATURES

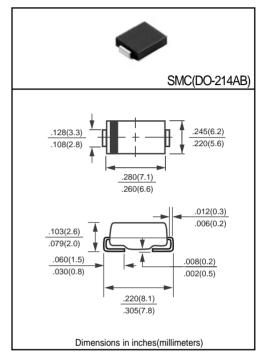
- * Voltage Range: 6.2V to 200V
- * Build-in strain relief
- * Glass passivated junction
- * Low inductance
- * Excellent clamping capability
- * Low profile package

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- * Polarity: As Marked
- * Mounting position: Any
- * Weight: 0.24 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



	SYMBOL	VALUE	UNITS
Zener Current see Table "Characteristics"			
Power Dissipation (Notes 1) at Tamb=25°C	Ptot	5	W
Peak Forward Surge Current, 8.3ms single half sine-wave	IFSM	15	Amps
superimposed on rated load (JEDEC Method) (Notes 2)	II SW	15	Allips
Maximum Forward Voltage at IF=500mA	VF	1.2	Volts
Operating and Storage Temperature	TJ,Tstg	-55 to + 150	°C

Notes: 1. Mounted on 5.0mm2 (.013mm thick) land areas.

2. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

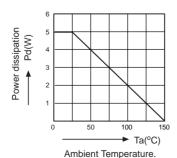


Fig. 1 - Changes in the power dissipation due to the ambient temperature.

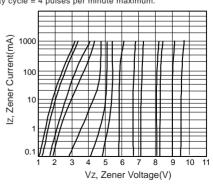


Fig. 2 - VZ=6.8 Thru 10 Volts

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RATING AND CHARACTERISTIC CURVES (SMC5341B THRU SMC5388B)

Type		Nominal	Zener	Maximum Zener Impedance			Maximum Reverse		
VZ@IZT IZT ZZT@IZT ZZT@IZK IR @VR mA Volts Ma Vol	7.05					IZK	Leakage Current		
Note	TYPE	_		77T@17T	77T@17K		ID	@\/D	
SMC5341B 6.2 200 1.0 200 1 1.0 3.0 765.0 SMC5342B 6.8 175 1.0 200 1 10.0 5.2 700.0 SMC5344B 8.2 150 1.5 200 1 10.0 6.2 580.0 SMC5344B 8.2 150 1.5 200 1 10.0 6.2 580.0 SMC5345B 8.7 150 2.0 200 1 10.0 6.6 545.0 SMC5347B 10 125 2.0 125 1 5.0 7.6 475.0 SMC5348B 11 125 2.5 125 1 5.0 7.6 475.0 SMC5349B 12 100 2.5 125 1 5.0 8.4 430.0 SMC5352B 13 100 2.5 75 1 1.0 9.9 365.0 SMC5352B 15 75 2.5 75						Λ			
SMC5342B 6.8 175 1.0 200 1 10.0 5.2 700.0 SMC5344B 7.5 175 1.5 200 1 10.0 5.7 630.0 SMC5344B 8.2 150 1.5 200 1 10.0 6.6 580.0 SMC5345B 8.7 150 2.0 200 1 10.0 6.6 545.0 SMC5346B 9.1 150 2.0 150 1 7.5 6.9 520.0 SMC5346B 9.1 150 2.0 150 1 7.5 6.9 520.0 SMC5348B 11 125 2.5 125 1 5.0 8.4 430.0 SMC5349B 12 100 2.5 100 1 1.0 9.1 395.0 SMC5359B 13 100 2.5 100 1 1.0 9.9 365.0 SMC5352B 15 75 2.5 75 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
SMC5343B									
SMC5344B 8.2 150 1.5 200 1 10.0 6.2 580.0 SMC5345B 8.7 150 2.0 200 1 10.0 6.6 545.0 SMC5347B 10 125 2.0 150 1 7.5 6.9 520.0 SMC5348B 11 125 2.0 125 1 5.0 7.6 475.0 SMC5348B 11 125 2.5 125 1 5.0 8.4 430.0 SMC5349B 12 100 2.5 125 1 5.0 8.4 430.0 SMC5350B 13 100 2.5 100 1 1.0 9.9 365.0 SMC5352B 15 75 2.5 75 1 1.0 11.5 315.0 SMC5355B 16 75 2.5 75 1 1.0 11.2 295.0 SMC5357B 20 65 3.0 75 1			_			-		_	
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SMC5352B 15 75 2.5 75 1 1.0 11.5 315.0 SMC5353B 16 75 2.5 75 1 1.0 12.2 295.0 SMC5355B 18 65 2.5 75 1 0.5 13.7 265.0 SMC5357B 20 65 3.0 75 1 0.5 15.2 237.0 SMC5358B 22 50 3.5 75 1 0.5 16.7 216.0 SMC5359B 24 50 3.5 75 1 0.5 16.7 216.0 SMC5361B 27 50 5.0 120 1 0.5 20.6 176.0 SMC5363B 30 40 8.0 140 1 0.5 22.8 158.0 SMC5364B 33 40 10 150 1 0.5 22.1 144.0 SMC5366B 39 30 11 160 1	SMC5349B	12	100	2.5	125	1	2.0	9.1	395.0
SMC5353B 16 75 2.5 75 1 1.0 12.2 295.0 SMC5355B 18 65 2.5 75 1 0.5 13.7 265.0 SMC5357B 20 65 3.0 75 1 0.5 15.2 237.0 SMC5358B 22 50 3.5 75 1 0.5 16.7 216.0 SMC5359B 24 50 3.5 100 1 0.5 18.2 198.0 SMC5361B 27 50 5.0 120 1 0.5 20.6 176.0 SMC5363B 30 40 8.0 140 1 0.5 22.8 158.0 SMC5364B 33 40 10 150 1 0.5 22.8 158.0 SMC5365B 36 30 11 160 1 0.5 25.1 144.0 SMC5366B 39 30 14 170 1	SMC5350B	13	100	2.5	100	1	1.0	9.9	365.0
SMC5355B 18 65 2.5 75 1 0.5 13.7 265.0 SMC5357B 20 65 3.0 75 1 0.5 15.2 237.0 SMC5358B 22 50 3.5 75 1 0.5 16.7 216.0 SMC5369B 24 50 3.5 100 1 0.5 18.2 198.0 SMC5361B 27 50 5.0 120 1 0.5 22.8 158.0 SMC5363B 30 40 8.0 140 1 0.5 22.8 158.0 SMC5364B 33 40 10 150 1 0.5 22.8 158.0 SMC5365B 36 30 11 160 1 0.5 22.1 144.0 SMC5366B 39 30 14 170 1 0.5 29.7 122.0 SMC5368B 47 25 25 210 1	SMC5352B	15	75	2.5	75	1	1.0	11.5	315.0
SMC5357B 20 65 3.0 75 1 0.5 15.2 237.0 SMC5358B 22 50 3.5 75 1 0.5 16.7 216.0 SMC5359B 24 50 3.5 100 1 0.5 18.2 198.0 SMC5361B 27 50 5.0 120 1 0.5 20.6 176.0 SMC5363B 30 40 8.0 140 1 0.5 22.8 158.0 SMC5364B 33 40 10 150 1 0.5 22.8 158.0 SMC5365B 36 30 11 160 1 0.5 25.1 144.0 SMC5366B 39 30 14 170 1 0.5 27.4 132.0 SMC5367B 43 30 20 190 1 0.5 32.7 110.0 SMC5369B 51 25 27 230 1	SMC5353B	16	75	2.5	75	1	1.0	12.2	295.0
SMC5358B 22 50 3.5 75 1 0.5 16.7 216.0 SMC5359B 24 50 3.5 100 1 0.5 18.2 198.0 SMC5361B 27 50 5.0 120 1 0.5 20.6 176.0 SMC5363B 30 40 8.0 140 1 0.5 22.8 158.0 SMC5364B 33 40 10 150 1 0.5 25.1 144.0 SMC5365B 36 30 11 160 1 0.5 25.1 144.0 SMC5366B 39 30 14 170 1 0.5 27.4 132.0 SMC5366B 39 30 14 170 1 0.5 29.7 122.0 SMC5366B 43 30 20 190 1 0.5 32.7 110.0 SMC5368B 47 25 25 210 1	SMC5355B	18	65	2.5	75	1	0.5	13.7	265.0
SMC5359B 24 50 3.5 100 1 0.5 18.2 198.0 SMC5361B 27 50 5.0 120 1 0.5 20.6 176.0 SMC5363B 30 40 8.0 140 1 0.5 22.8 158.0 SMC5364B 33 40 10 150 1 0.5 25.1 144.0 SMC5365B 36 30 11 160 1 0.5 27.4 132.0 SMC5366B 39 30 14 170 1 0.5 29.7 122.0 SMC5367B 43 30 20 190 1 0.5 32.7 110.0 SMC5368B 47 25 25 210 1 0.5 32.7 110.0 SMC5369B 51 25 27 230 1 0.5 38.8 93.0 SMC5370B 56 20 35 280 1	SMC5357B	20	65	3.0	75	1	0.5	15.2	237.0
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SMC5363B 30 40 8.0 140 1 0.5 22.8 158.0 SMC5364B 33 40 10 150 1 0.5 25.1 144.0 SMC5365B 36 30 11 160 1 0.5 27.4 132.0 SMC5366B 39 30 14 170 1 0.5 29.7 122.0 SMC5367B 43 30 20 190 1 0.5 32.7 110.0 SMC5368B 47 25 25 210 1 0.5 35.8 100.0 SMC5369B 51 25 27 230 1 0.5 38.8 93.0 SMC5370B 56 20 35 280 1 0.5 42.6 86.0 SMC5373B 68 20 44 400 1 0.5 47.1 76.0 SMC5374B 75 20 45 620 1	SMC5359B	24	50	3.5	100	1	0.5	18.2	198.0
SMC5363B 30 40 8.0 140 1 0.5 22.8 158.0 SMC5364B 33 40 10 150 1 0.5 25.1 144.0 SMC5365B 36 30 11 160 1 0.5 27.4 132.0 SMC5366B 39 30 14 170 1 0.5 29.7 122.0 SMC5367B 43 30 20 190 1 0.5 32.7 110.0 SMC5368B 47 25 25 210 1 0.5 35.8 100.0 SMC5369B 51 25 27 230 1 0.5 38.8 93.0 SMC5370B 56 20 35 280 1 0.5 42.6 86.0 SMC5372B 62 20 42 400 1 0.5 47.1 76.0 SMC5373B 68 20 44 500 1	SMC5361B	27	50	5.0	120	1	0.5	20.6	176.0
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									_
I SMC5388B I 200 I 5 I 480 I 1850 I 1 I 0.5 I 152.0 I 23.6 I	SMC5388B	200	5	480	1850	1	0.5	152.0	23.6

NOTE: Standard Zener Voltage Tolerance ± 5%

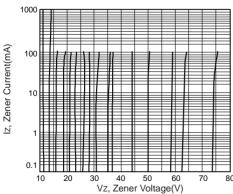


Fig. 3 - Vz=11 Thru 75 Volts

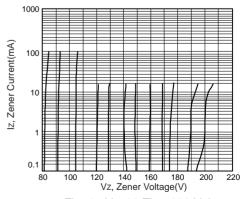


Fig. 4 - Vz=82 Thru 200 Volts

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