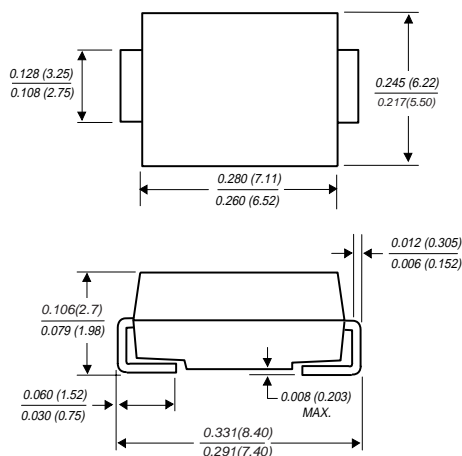


# SMCJ5333B THRU SMCJ5388B

## ZENER DIODES

Zener Voltage: 3.3-200V Peak Pulse Power: 5.0W

### DO-214AB



Dimensions in inches and (millimeters)

### Features

- Low profile package for surface mounting (flat handling surface for accurate placement)
- Zener Voltage 3.3V to 200V
- High Surge Current Capability
- For available tolerances – see note 1
- Available on Tape and Reel

### Mechanical Data

- Standard JEDEC outlines as shown
- Terminals gull-wing or c-bend (modified J-bend) tin-lead plated and solderable per MIL-STD-750, method 2026
- Polarity is indicated by cathode band
- Maximum temperature for soldering: 260 °C for 10 seconds.
- 0.22 grams

### Maximum Ratings @ 25°C Unless Otherwise Specified

Forward Voltage at 1.0A Current	$V_F$	1.2 Volts
Steady State Power Dissipation	$P_{(AV)}$	5 Watts See note 2
Operating and Storage Temperatures	$T_J, T_{STG}$	-55°C to + 150°C
Thermal Resistance	$R_{\theta JL}$	25°C/W

### Notes

1. Mounted on copper pads as shown below.
2. Lead temperature at 25 °C =  $T_L$  at mounting plane. Derate linearly above 25 °C to zero power at 150 °C

# SMCJ5333B thru SMCJ5388B

## Electrical Characteristics

Part Number	Regulator Voltage (V <sub>Z</sub> )	Test Current (I <sub>ZT</sub> )	Maximum Dynamic Impedance (Z <sub>Z</sub> ) (A&B Suffix)	Maximum Reverse Current (I <sub>R</sub> ) @ V <sub>R</sub>	I <sub>R</sub> Test Voltage (V <sub>R</sub> ) (Non-Suffix & A Suffix)	I <sub>R</sub> Test Voltage (V <sub>R</sub> ) (B,C,D Suffix)	Maximum Regulator Current (I <sub>ZM</sub> ) (B,C,D Suffix)	Maximum Dynamic Knee Impedance Z <sub>zk</sub> @ 1.0 mA (A,B,C,D Suffix)	Maximum Surge Current (I <sub>ZSM</sub> )	Maximum Voltage Regulation (ΔV <sub>Z</sub> ) (A,B,C,D Suffix)
	V	mAdc	OHMS	μA	V	V	mA	OHMS	AMPS	VOLTS
SMCJ5333B	3.3	380	3.0	300	1.0	1.0	1440	400	20	0.85
SMCJ5334B	3.6	350	2.5	150	1.0	1.0	1320	500	18.7	0.80
SMCJ5335B	3.9	320	2.0	50	1.0	1.0	1220	500	17.6	0.54
SMCJ5336B	4.3	290	2.0	10	1.0	1.0	1100	500	16.4	0.49
SMCJ5337B	4.7	260	2.0	5.0	1.0	1.0	1010	450	15.3	0.44
SMCJ5338B	5.1	240	1.5	1.0	1.0	1.0	930	400	14.4	0.39
SMCJ5339B	5.6	220	1.0	1.0	2.0	2.0	865	400	13.4	0.25
SMCJ5340B	6.0	200	1.0	1.0	3.0	3.0	790	300	12.7	0.19
SMCJ5341B	6.2	200	1.0	1.0	3.0	3.0	765	200	12.4	0.10
SMCJ5342B	6.8	175	1.0	10	4.9	5.2	700	200	11.5	0.15
SMCJ5343B	7.5	175	1.5	10	6.4	5.7	630	200	10.7	0.15
SMCJ5344B	8.2	150	1.5	10	6.9	6.2	580	200	10	0.20
SMCJ5345B	8.7	150	2.0	10	6.25	6.6	545	200	9.5	0.20
SMCJ5346B	9.1	150	2.0	7.5	6.6	6.9	520	150	9.2	0.22
SMCJ5347B	10	125	2.0	5.0	7.2	7.6	475	125	8.6	0.22
SMCJ5348B	11	125	2.5	5.0	8.0	8.4	430	125	8.0	0.25
SMCJ5349B	12	100	2.5	2.0	8.6	9.1	395	125	7.5	0.25
SMCJ5350B	13	100	2.5	1.0	9.4	9.9	265	100	7.0	0.25
SMCJ5351B	14	100	2.5	1.0	10.1	10.6	340	75	6.7	0.25
SMCJ5352B	15	75	2.5	1.0	10.8	11.5	315	75	6.3	0.25
SMCJ5353B	16	75	2.5	1.0	11.5	12.2	295	75	6.0	0.30
SMCJ5354B	17	70	2.5	0.5	12.2	12.3	280	75	5.8	0.35
SMCJ5355B	18	65	2.5	0.5	13	13.7	264	75	5.5	0.40
SMCJ5356B	19	65	3.0	0.5	13.7	14.4	250	75	5.3	0.40
SMCJ5357B	20	65	3.0	0.5	14.4	15.2	237	75	5.1	0.40
SMCJ5358B	22	50	3.5	0.5	15.8	16.7	216	75	4.7	0.45
SMCJ5359B	24	50	3.5	0.5	17.3	18.2	198	100	4.4	0.55
SMCJ5360B	25	50	4.0	0.5	18	19	190	110	4.3	0.55
SMCJ5361B	27	50	5.0	0.5	19.4	20.6	176	120	4.1	0.60
SMCJ5362B	28	50	6.0	0.5	20.1	21.2	170	130	3.9	0.60
SMCJ5363B	30	40	8.0	0.5	21.6	22.8	158	140	3.7	0.60
SMCJ5364B	33	40	10	0.5	23.8	25.1	144	150	3.5	0.63
SMCJ5365B	36	30	11	0.5	25.9	27.4	132	160	3.3	0.65
SMCJ5366B	39	30	14	0.5	28.1	29.7	122	170	3.1	0.65
SMCJ5367B	43	30	20	0.5	31	32.7	110	190	2.8	0.70
SMCJ5368B	47	25	25	0.5	33.8	35.8	100	210	2.7	0.80
SMCJ5369B	51	25	27	0.5	36.7	38.8	93	230	2.5	0.90
SMCJ5370B	56	20	35	0.5	40.3	42.5	86	280	2.3	1.00
SMCJ5371B	60	20	40	0.5	43	45.5	79	350	2.2	1.20
SMCJ5372B	62	20	42	0.5	44.6	47.1	76	400	2.1	1.35
SMCJ5373B	68	20	44	0.5	49	51.7	70	500	2.0	1.50
SMCJ5374B	75	20	45	0.5	54	56	63	620	1.9	1.60
SMCJ5375B	82	15	65	0.5	59	62.2	58	720	1.8	1.80
SMCJ5376B	87	15	75	0.5	63	66	54.5	760	1.7	2.00
SMCJ5377B	91	15	75	0.5	65.5	69.2	52.5	760	1.6	2.20
SMCJ5378B	100	12	90	0.5	72	76	47.5	800	1.5	2.30
SMCJ5379B	110	12	125	0.5	79.2	83.6	43	1000	1.4	2.50
SMCJ5380B	120	10	170	0.5	86.4	91.2	39.5	1150	1.3	2.50
SMCJ5381B	130	10	190	0.5	93.6	93.8	36.6	1250	1.2	2.50
SMCJ5382B	140	8.0	230	0.5	101	106	34	1500	1.2	2.50
SMCJ5383B	150	8.0	330	0.5	108	114	31.5	1500	1.1	3.00
SMCJ5384B	160	8.0	350	0.5	115	122	29.4	1660	1.1	3.00
SMCJ5385B	170	8.0	380	0.5	122	129	28	1750	1.0	3.00
SMCJ5386B	180	5.0	430	0.5	130	137	26.4	1750	1.0	4.00
SMCJ5387B	190	5.0	450	0.5	137	144	25	1850	0.9	5.00
SMCJ5388B	200	5.0	480	0.5	144	152	23.6	1850	0.9	5.00

# SMCJ5333B thru SMCJ5388B

