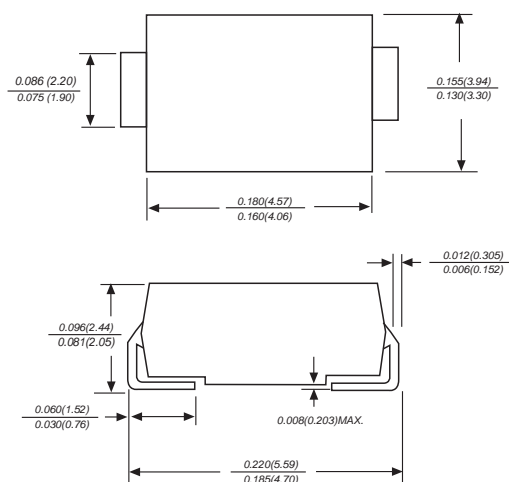




# Taiwan Goodark Technology Co.,Ltd

## SMBJ5333B THRU SMBJ5388B

### DO-214AA



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.
- 0.09 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



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## 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
SMBJ5333B	3.3	380	3.0	300	1.0	1.0	1440	400	20	0.85
SMBJ5334B	3.6	350	2.5	150	1.0	1.0	1320	500	18.7	0.80
SMBJ5335B	3.9	320	2.0	50	1.0	1.0	1220	500	17.6	0.54
SMBJ5336B	4.3	290	2.0	10	1.0	1.0	1100	500	16.4	0.49
SMBJ5337B	4.7	260	2.0	5.0	1.0	1.0	1010	450	15.3	0.44
SMBJ5338B	5.1	240	1.5	1.0	1.0	1.0	930	400	14.4	0.39
SMBJ5339B	5.6	220	1.0	1.0	2.0	2.0	865	400	13.4	0.25
SMBJ5340B	6.0	200	1.0	1.0	3.0	3.0	790	300	12.7	0.19
SMBJ5341B	6.2	200	1.0	1.0	3.0	3.0	765	200	12.4	0.10
SMBJ5342B	6.8	175	1.0	10	4.9	5.2	700	200	11.5	0.15
SMBJ5343B	7.5	175	1.5	10	6.4	5.7	630	200	10.7	0.15
SMBJ5344B	8.2	150	1.5	10	6.9	6.2	580	200	10	0.20
SMBJ5345B	8.7	150	2.0	10	6.25	6.6	545	200	9.5	0.20
SMBJ5346B	9.1	150	2.0	7.5	6.6	6.9	520	150	9.2	0.22
SMBJ5347B	10	125	2.0	5.0	7.2	7.6	475	125	8.6	0.22
SMBJ5348B	11	125	2.5	5.0	8.0	8.4	430	125	8.0	0.25
SMBJ5349B	12	100	2.5	2.0	8.6	9.1	395	125	7.5	0.25
SMBJ5350B	13	100	2.5	1.0	9.4	9.9	265	100	7.0	0.25
SMBJ5351B	14	100	2.5	1.0	10.1	10.6	340	75	6.7	0.25
SMBJ5352B	15	75	2.5	1.0	10.8	11.5	315	75	6.3	0.25
SMBJ5353B	16	75	2.5	1.0	11.5	12.2	295	75	6.0	0.30
SMBJ5354B	17	70	2.5	0.5	12.2	12.3	280	75	5.8	0.35
SMBJ5355B	18	65	2.5	0.5	13	13.7	264	75	5.5	0.40
SMBJ5356B	19	65	3.0	0.5	13.7	14.4	250	75	5.3	0.40
SMBJ5357B	20	65	3.0	0.5	14.4	15.2	237	75	5.1	0.40
SMBJ5358B	22	50	3.5	0.5	15.8	16.7	216	75	4.7	0.45
SMBJ5359B	24	50	3.5	0.5	17.3	18.2	198	100	4.4	0.55
SMBJ5360B	25	50	4.0	0.5	18	19	190	110	4.3	0.55
SMBJ5361B	27	50	5.0	0.5	19.4	20.6	176	120	4.1	0.60
SMBJ5362B	28	50	6.0	0.5	20.1	21.2	170	130	3.9	0.60
SMBJ5363B	30	40	8.0	0.5	21.6	22.8	158	140	3.7	0.60
SMBJ5364B	33	40	10	0.5	23.8	25.1	144	150	3.5	0.63
SMBJ5365B	36	30	11	0.5	25.9	27.4	132	160	3.3	0.65
SMBJ5366B	39	30	14	0.5	28.1	29.7	122	170	3.1	0.65
SMBJ5367B	43	30	20	0.5	31	32.7	110	190	2.8	0.70
SMBJ5368B	47	25	25	0.5	33.8	35.8	100	210	2.7	0.80
SMBJ5369B	51	25	27	0.5	36.7	38.8	93	230	2.5	0.90
SMBJ5370B	56	20	35	0.5	40.3	42.5	86	280	2.3	1.00
SMBJ5371B	60	20	40	0.5	43	45.5	79	350	2.2	1.20
SMBJ5372B	62	20	42	0.5	44.6	47.1	76	400	2.1	1.35
SMBJ5373B	68	20	44	0.5	49	51.7	70	500	2.0	1.50
SMBJ5374B	75	20	45	0.5	54	56	63	620	1.9	1.60
SMBJ5375B	82	15	65	0.5	59	62.2	58	720	1.8	1.80
SMBJ5376B	87	15	75	0.5	63	66	54.5	760	1.7	2.00
SMBJ5377B	91	15	75	0.5	65.5	69.2	52.5	760	1.6	2.20
SMBJ5378B	100	12	90	0.5	72	76	47.5	800	1.5	2.30
SMBJ5379B	110	12	125	0.5	79.2	83.6	43	1000	1.4	2.50
SMBJ5380B	120	10	170	0.5	86.4	91.2	39.5	1150	1.3	2.50
SMBJ5381B	130	10	190	0.5	93.6	93.8	36.6	1250	1.2	2.50
SMBJ5382B	140	8.0	230	0.5	101	106	34	1500	1.2	2.50
SMBJ5383B	150	8.0	330	0.5	108	114	31.5	1500	1.1	3.00
SMBJ5384B	160	8.0	350	0.5	115	122	29.4	1660	1.1	3.00
SMBJ5385B	170	8.0	380	0.5	122	129	28	1750	1.0	3.00
SMBJ5386B	180	5.0	430	0.5	130	137	26.4	1750	1.0	4.00
SMBJ5387B	190	5.0	450	0.5	137	144	25	1850	0.9	5.00
SMBJ5388B	200	5.0	480	0.5	144	152	23.6	1850	0.9	5.00



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