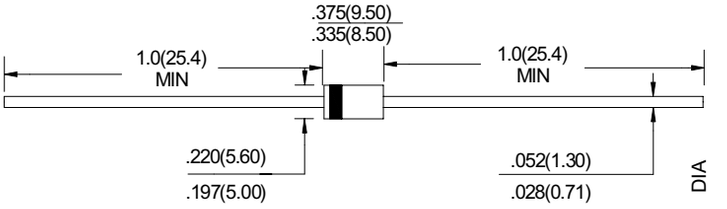
ZENER DIODE
IN5333B Thru 1N5388B 5 Watts

RoHS

FEATURES

- High reliability
- Sharp reverse current
- Standard zener tolerance of ± 5%
- 3.3V through 200V



DO-201AD
Dimensions in inches and (millimeters)

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capactitive load, derate current by 20%

Item	Symbol	Conditions	Max	Unit
Power Dissipation	P_{tot}	L=9.5mm,TL=75℃	5.0	W
Zener Current	I_Z	--	PV /VZ	mA
Maximum Junction Temperature	T_j	--	150	℃
Storage Temperature Range	T_{stg}	--	-55 to +150	℃
Thermal resistance	R_{OJA}	Junction to Ambient air, T_L=75℃	20	℃ / W
Forward voltage	V_F	I_F= 200mA	1.2	V

ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted)

Part Number	Nominal Zener Voltage	Test Current	Maximum Dynamic Impedance			Maximum Reverse Leakage Current		Maximum Zener Current
	V_Z at I_{ZT}	I_{ZT}	Z_{ZT} at I_{ZT}	Z_{ZK} at I_{ZK}	I_{ZK}	I_R	Test Voltage V_R	I_{ZM}
	V	mA	Ω	Ω	mA	μA	V	mA
1N5333B	3.3	380	3.0	400	1	300	1.0	1440
1N5334B	3.6	350	2.5	500	1	150	1.0	1320
1N5335B	3.9	320	2.0	500	1	50	1.0	1220
1N5336B	4.3	290	2.0	500	1	10	1.0	1100
1N5337B	4.7	260	2.0	450	1	5	1.0	1010
1N5338B	5.1	240	1.5	400	1	1	1.0	930
1N5339B	5.6	220	1.0	400	1	1	2.0	865
1N5340B	6	200	1.0	300	1	1	3.0	790
1N5341B	6.2	200	1.0	200	1	1	3.0	765
1N5342B	6.8	175	1.0	200	1	10	5.2	700
1N5343B	7.5	175	1.5	200	1	10	5.7	630
1N5344B	8.2	150	1.5	200	1	10	6.2	580
1N5345B	8.7	150	2.0	200	1	10	6.6	545
1N5346B	9.1	150	2.0	150	1	10	6.9	520
1N5347B	10	125	2.0	125	1	7.5	7.6	475

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Part Number	Nominal Zener Voltage	Test Current	Maximum Dynamic Impedance			Maximum Reverse Leakage Current		Maximum Zener Current
	V_Z at I_{ZT}	I_{ZT}	Z_{ZT} at I_{ZT}	Z_{ZK} at I_{ZK}	I_{ZK}	I_R	Test Voltage V_R	I_{ZM}
	V	mA	Ω	Ω	mA	μA	V	mA
1N5348B	11	125	2.5	125	1	5	8.4	430
1N5349B	12	100	2.5	125	1	2	9.1	395
1N5350B	13	100	2.5	100	1	1	9.9	365
1N5351B	14	100	2.5	75	1	1	10.6	340
1N5352B	15	75	2.5	75	1	1	11.5	31
1N5353B	16	75	2.5	75	1	1	12.2	295
1N5354B	17	70	2.5	75	1	0.5	12.9	280
1N5355B	18	65	2.5	75	1	0.5	13.7	265
1N5356B	19	65	3.0	75	1	0.5	14.4	250
1N5357B	20	65	3.0	75	1	0.5	15.2	237
1N5358B	22	50	3.5	75	1	0.5	16.7	216
1N5359B	24	50	3.5	100	1	0.5	18.2	198
1N5360B	25	50	4.0	110	1	0.5	19.0	190
1N5361B	27	50	5.0	120	1	0.5	20.6	176
1N5362B	28	50	6.0	130	1	0.5	21.2	170
1N5363B	30	40	8.0	140	1	0.5	22.8	158
1N5364B	33	40	10.0	150	1	0.5	25.1	144
1N5365B	36	30	11.0	160	1	0.5	27.4	132
1N5366B	39	30	14.0	170	1	0.5	29.7	122
1N5367B	43	30	20.0	190	1	0.5	32.7	110
1N5368B	47	25	25.0	210	1	0.5	35.8	100
1N5369B	51	25	27.0	230	1	0.5	38.8	93
1N5370B	56	20	35.0	280	1	0.5	42.6	86
1N5371B	60	20	40.0	350	1	0.5	45.5	79
1N5372B	62	20	42.0	400	1	0.5	47.1	76
1N5373B	68	20	44.0	500	1	0.5	51.7	70
1N5374B	75	20	45.0	620	1	0.5	56.0	63
1N5375B	82	15	65.0	720	1	0.5	62.2	58
1N5376B	87	15	75.0	760	1	0.5	66.0	54.5
1N5377B	91	15	75.0	760	1	0.5	69.2	52.5
1N5378B	100	12	90.0	800	1	0.5	76.0	47.5

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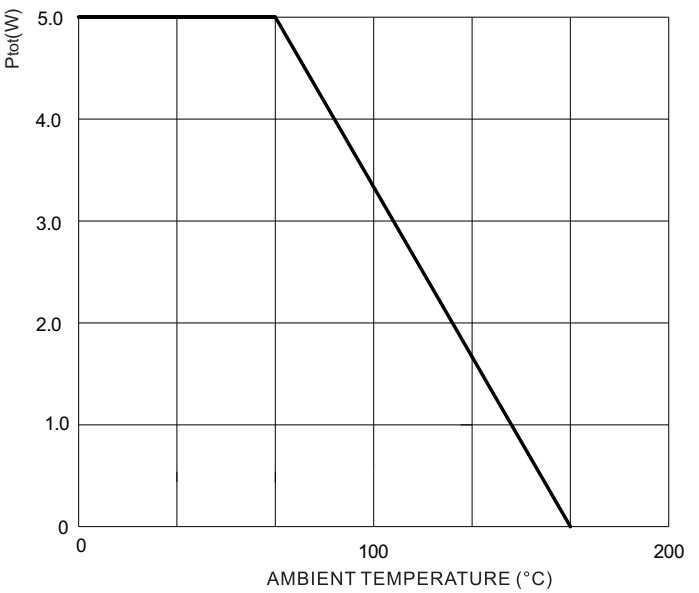
	V_Z at I_{ZT}	I_{ZT}	Z_{ZT} at I_{ZT}	Z_{ZK} at I_{ZK}	I_{ZK}	I_R	Test Voltage V_R	I_{ZM}
	V	mA	Ω	Ω	mA	μA	V	mA
1N5379B	110	12	125.0	1000	1	0.5	83.6	43
1N5380B	120	10	170.0	1150	1	0.5	91.2	39.5
1N5381B	130	10	190.0	1250	1	0.5	98.8	36.6
1N5382B	140	8	230.0	1500	1	0.5	106.0	34
1N5383B	150	8	330.0	1500	1	0.5	114.0	31.6
1N5384B	160	8	350.0	1650	1	0.5	122.0	29.4
1N5385B	170	8	380.0	1750	1	0.5	129.0	28
1N5386B	180	5	430.0	1750	1	0.5	137.0	26.4
1N5387B	190	5	450.0	1850	1	0.5	144.0	25
1N5388B	200	5	480.0	1850	1	0.5	152.0	23.6

RATING & CHARACTERISTIC CURVES

FIG.1-Admissible Power Dissipation vs. Ambient Temperature



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