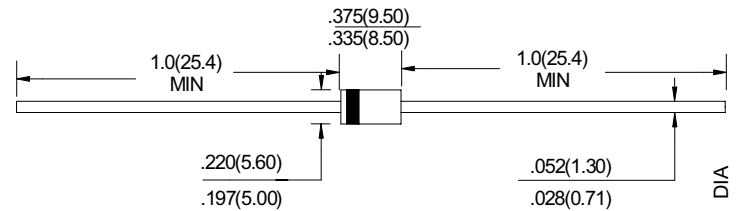


FEATURES

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



MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

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

DO-201AD

Dimensions in inches and (millimeters)

Item	Symbol	Conditions	Max	Unit
Power Dissipation	P_{tot}	$L=9.5\text{mm}, T_L=75^\circ\text{C}$	5.0	W
Zener Current	I_Z	--	PV / VZ	mA
Maximum Junction Temperature	T_j	--	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	--	-55 to +150	$^\circ\text{C}$
Thermal resistance	$R_{\theta JA}$	Junction to Ambient air, $T_L=75^\circ\text{C}$	20	$^\circ\text{C} / \text{W}$
Forward voltage	V_F	$I_F=200\text{mA}$	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

■ **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
	Vz at IZT	IZT	ZZT at IZT	Zzk at Izk	Izk	IR	Test Voltage VR	IZM
	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

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
	Vz at IzT	IzT	ZzT at IzT	Zzk at IzK	IzK	IR	Test Voltage VR	IzM
	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

