

DATA SHEET

1N5348B SERIES

GLASS PASSIVATED JUNCTION SILICON ZENER DIODES

VOLTAGE	11 to 39 Volts	CURRENT	5.0 Watts
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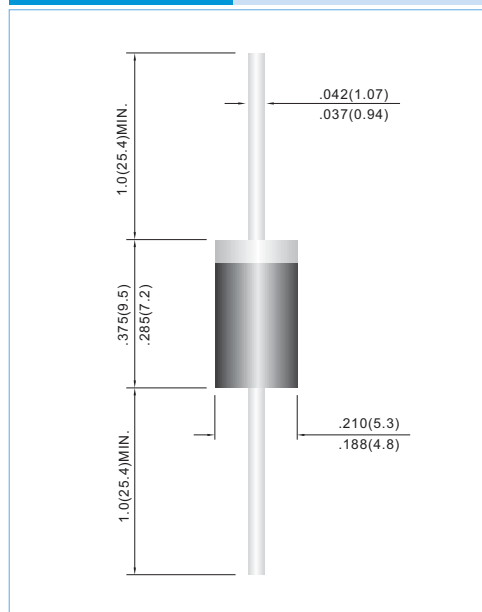
DO-201AE	Unit: inch(mm)
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FEATURES

- For surface mounted applications in order to optimize board space.
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Typical I_D less than $1.0\mu A$ above 13V
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Both normal and Pb free product are available :
Normal : 80~95% Sn, 5~20% Pb
Pb free: 98.5% Sn above

MECHANICAL DATA

Case: JEDEC DO-201AE molded plastic
Terminals: Axial leads, solderable per MIL-STD-202, Method 208
Polarity: Color band denoted cathode except Bipolar
Mounting Position: Any
Weight: 0.045 ounce, 1.2 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
DC Power Dissipation on $T_L=75^\circ C$,Measure at Zero Lead Length Derate above $50^\circ C$ (NOTE 1)	P_D	5.0 40	Watts mW / $^\circ C$
Operating Junction and Storage Temperature Range	T_J , T_{STG}	-55 to +150	$^\circ C$

NOTE:

1. Mounted on $8.0mm^2$ copper pads to each terminal.



Part Num ber	Nom inal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current	
	V _Z @ I _T			Z _{ZT} @ I _T		Z _{ZK} @ I _K		I _R @ V _R	
	Nom . V	M in . V	Max . V	Ω	m A	Ω	m A	uA	V
5.0 Watt Zener									
1N5348B	11.0	10.5	11.6	2.5	125	125	1.0	5.0	8.4
1N5349B	12.0	11.4	12.6	2.5	100	125	1.0	2.0	9.1
1N5350B	13.0	12.4	13.7	2.5	100	100	1.0	1.0	9.9
1N5351B	14.0	13.3	14.7	2.5	100	75	1.0	1.0	10.6
1N5352B	15.0	14.3	15.8	2.5	75	75	1.0	1.0	11.6
1N5353B	16.0	15.2	16.8	2.5	75	75	1.0	1.0	12.2
1N5354B	17.0	16.2	17.9	2.5	70	75	1.0	0.5	12.9
1N5355B	18.0	17.1	18.9	2.5	65	75	1.0	0.5	13.7
1N5356B	19.0	18.1	20.0	3.0	65	75	1.0	0.5	14.4
1N5356B	20.0	19.0	21.0	3.0	65	75	1.0	0.5	15.2
1N5358B	22.0	20.9	23.1	3.5	50	75	1.0	0.5	16.7
1N5359B	24.0	22.8	25.2	3.5	50	100	1.0	0.5	18.2
1N5360B	25.0	23.8	26.3	4.0	50	110	1.0	0.5	19.0
1N5361B	27.0	25.7	28.4	5.0	50	120	1.0	0.5	20.6
1N5362B	28.0	26.6	29.4	6.0	50	130	1.0	0.5	21.2
1N5363B	30.0	28.5	31.5	8.0	40	140	1.0	0.5	22.8
1N5364B	33.0	31.4	34.7	10	40	150	1.0	0.5	25.1
1N5365B	36.0	34.2	37.8	11	30	160	1.0	0.5	27.4
1N5366B	39.0	37.1	41.0	14	30	170	1.0	0.5	29.7

RATING AND CHARACTERISTIC CURVES

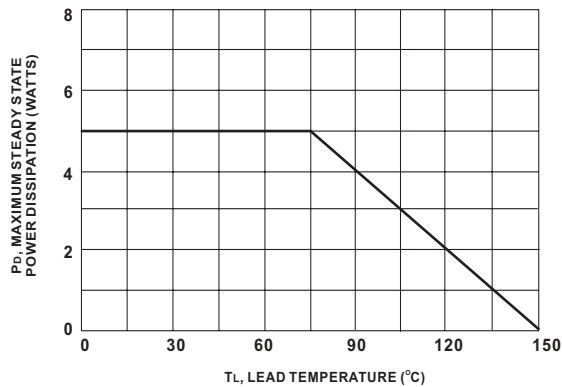


Fig.1 Power temperature Derating Curve

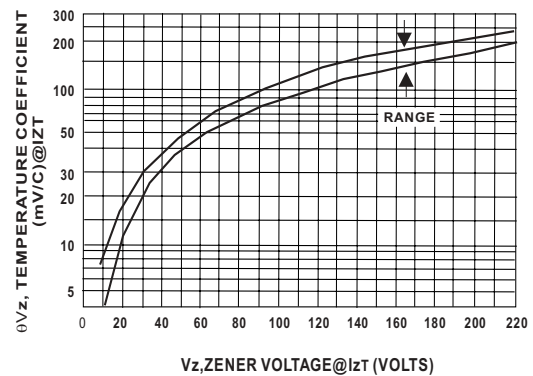


Fig.2 Temperature Coefficient-Range
for Units 11 to 39 Volts

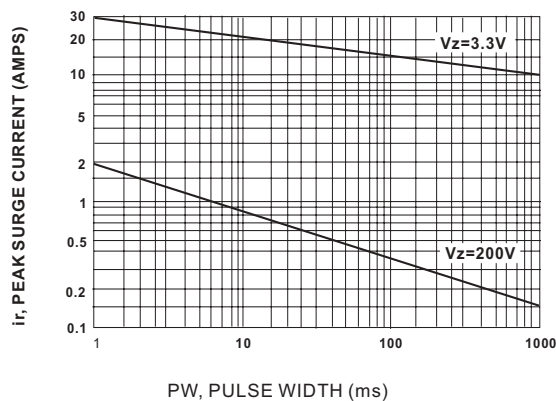


Fig.3 Peak Surge Current versus Pulse Width

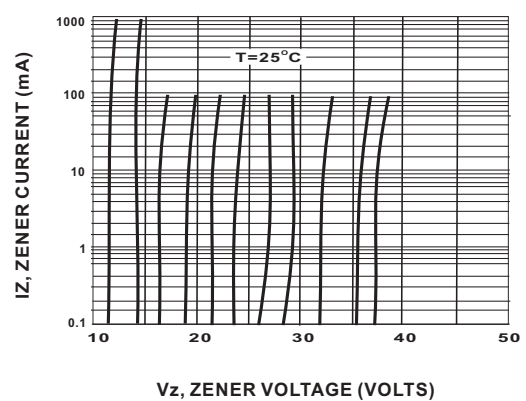


Fig.4 Zener Voltage versus Zener Current
Vz=11 thru 39 Volts