Zener Diode





Features:

- Silicon Planar Power Zener Diodes
- Standard Zener Voltage Tolerance is ±5%. with a "B" Suffix.
 Other Tolerances are Available Upon Request

Mechanical Data:

· Case:DO-35, Glass Case

Terminals: Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandMarking: Type NumberApprox. Weight: 0.13g

Maximum Ratings and Electrical Characteristics:

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave,60Hz, resistive or inductive load. For capacitive load,derate by 20%.

Characteristics	Symbol	Value	Unit
Power dissipation at T _a =25°C (Note 1)	P _{tot}	500	mW
Junction temperature	TJ	175	°C
Storage temperature range	Ts	-55 to +175	°C

Characteristics	Symbol	Min.	Тур.	Max.	Unit
Thermal resistance junction to ambient (Note 1)	Rөja	-	-	300	°C/W
Forward voltage at I==200mA	VF	-	-	1.2	V

Notes:

(1) Valid provided that leads at a distance of 10 mm from case are kept at ambient temperature



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Electrical Characteristics:

(T_A=25°C)

	Nominal Zener Voltage (Note 1)	Test Current	Maximum Dynamic Impedance (Note 1)		Typical Temperature of Coeffizient	Maximum Reverse Leakage Current	
Part Number	Vz	lzт	Z zт@ I zт	Zzk@ Izk=0.25mA	αVz@lzτ	IRM	V R
	V	mA	Ω	Ω	%/°C	Α	V
1N5231B-T	5.1		17 11 6	1 600	+0.03	5	2
1N5232B-T	5.6	20		1,600	+0.038	5	3
1N5236B-T	7.5			500	+0.058	3	6
1N5250B-T	20	6.2	25	600	+0.086	0.1	15

Notes:

(1) Based on dc-measurement at thermal equilibrium; lead length=9.5 (3/8"); thermal resistance of heat sink=30k/W.

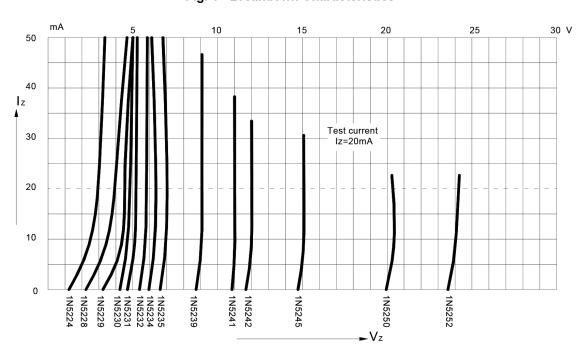


Fig. 1 - Breakdown Characteristics

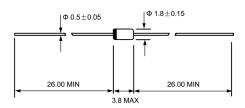
Zener Diode



mW
500
400
Ptot
300
100
0
100
Tamb

Fig. 2 - Admissible Power Dissipation Versus Ambient Temperature

Dimensions:



DO-35(GLASS)

Dimensions: Millimetres

Part Number Table

Description	Part Number		
Zener Diodes	1N5231B-T		
	1N5232B-T		
	1N5236B-T		
	1N5250B-T		

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