

Glass Silicon Zener Diode



Features

Voltage Range : 3.6V to 51V
Double slug type construction

Mechanical Data

Case : Glass case Minimelf DL-35
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Colour band denotes cathode end
Mounting position : Any
Weight : 0.05 gram Approx

Maximum Ratings And 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%.

Characteristic	Symbol	Value	Unit
Power Dissipation at T _{amb} = 25°C	P _{tot}	500*	mW
Junction Temperature	T _j	175	°C
Storage Temperature Range	T _{stg}	-55 to +175	°C
Thermal Resistance Junction to Ambient Air	R _{θJA}	0.3	k/mW (Max.)
Forward Voltage Typ at I _F = 100mA	V _F	1	Volts (Max.)

* Valid Provided that leads are kept at ambient temperature at a distance of 8mm from case

Notes: Suffix "B" indicates Zener Voltage Tolerance 5%

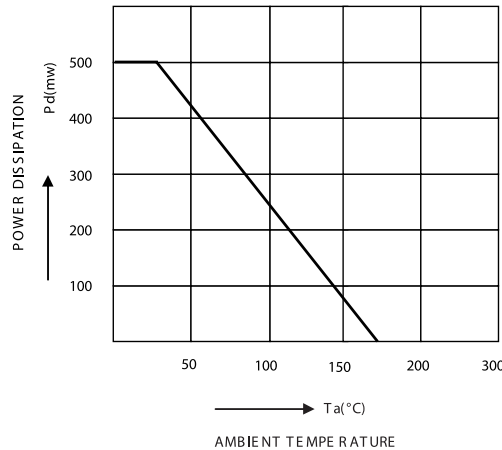
Specification Table

Part Number	Nominal Zener Voltage V _{Z@I_{ZT}}	Zener Test Current I _{ZT}	Max. Zener Impedance		Typical Coefficient Temperature	Max. Reverse Leakage Current		Max. Regulator Current I _{ZM}
			Z _{ZT@I_{ZT}}	Z _{ZT@I_{ZK}(*)=0.25mA}		I _R	@V _R	
1N5231B+	5.1	20	17	1600	±0.03	5	2	89
1N5232B+	5.6	20	11	1600	+0.038	5	3	81
1N5234B+	6.2	20	7	1000	+0.045	5	4	73
1N5236B+	7.5	20	6	500	+0.058	3	6	61
1N5240B+	10	20	17	600	+0.075	3	8	45
1N5242B +	12	20	30	600	+0.077	1	9.1	38
1N5245B+	15	8.5	16	600	+0.082	0.1	11	30

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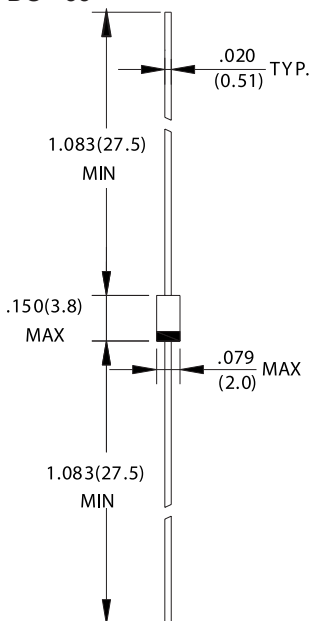


CHANGES IN THE POWER DISSIPATION DUE TO THE AMBIENT TEMPERATURE



Dimensions:

DO - 35



Dimensions : Millimetres

Part Number Table

Description	Part Number
Zener Diode, 5.1V DO-35 500mW	1N5231B+
Zener Diode, 5.6V DO-35 500mW	1N5232B+
Zener Diode, 6.2V DO-35 500mW	1N5234B+
Zener Diode, 7.5V DO-35 500mW	1N5236B+
Zener Diode, 10V DO-35 500mW	1N5240B+
Zener Diode, 12V DO-35 500mW	1N5242B +
Zener Diode, 15V DO-35 500mW	1N5245B+

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