

# Surface Mount Zener Diode



## Features

- Planar Die Construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes

## Mechanical Data

Case	: Molded Glass MINI-MELF
Terminals	: Solderable per MIL-STD-202E, Method 208
Approx. Weight	: 0.008 grams
Mounting Position	: Any
Voltage	: 2.4 to 75 Volts
Power	: 500 mWatts

## Maximum Ratings And Electrical Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation at T <sub>amb</sub> = 25°C	P <sub>tot</sub>	500	mW
Junction Temperature	T <sub>j</sub>	175	°C
Storage Temperature Range	T <sub>stg</sub>	-65 to +175	°C
Valid provided that leads at a distance of 10mm from case are kept at ambient temperature			
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	0.3	k/mW (Max.)
Forward Voltage Typ at I <sub>F</sub> = 200mA	V <sub>F</sub>	1	Volts (Max.)

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

## Specification Table

Part Number	Nominal Zener Voltage			Maximum Zener Impedance				Maximum Reverse Current		Marking code
	V <sub>Z</sub> @ I <sub>ZT</sub>			Z <sub>ZT</sub> @I <sub>ZT</sub>		Z <sub>ZK</sub> @I <sub>ZK</sub>		I <sub>R</sub> @V <sub>R</sub>		
	Nom(V)	Min(V)	Max(V)	Ω	mA	Ω	mA	μA	V	
DL5232B+	5.6	5.32	5.88	11	20	1600	0.25	5	3	5232
DL5236B+	7.5	7.13	7.88	6	20	500	0.25	3	6	5236
DL5248B+	18	17.1	18.9	21	7	600	0.25	0.1	14	5248

### Note:

Standard voltage tolerance is +5%:

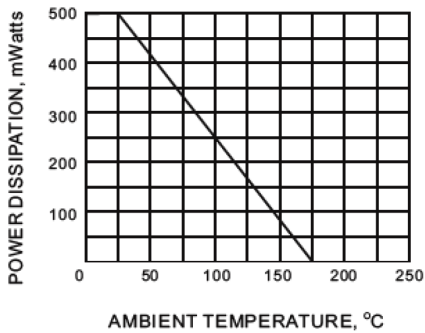
Suffix "B" for + 5%

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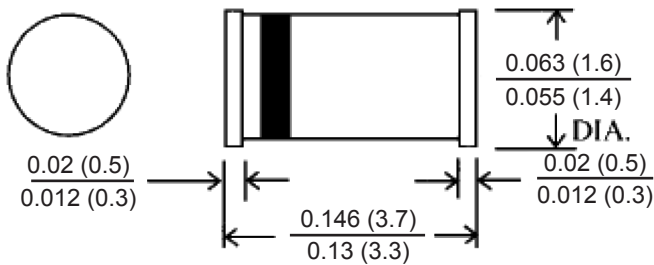
## Rating And Characteristic Curves



Power Derating Curve

## Dimensions:

MINI MELF(DL-35)



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Zener - Single 500mW 5.6V DL-35	DL5232B+
Zener - Single 500mW 7.5V DL-35	DL5236B+
Zener - Single 500mW 18V DL-35	DL5248B+

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