

1N4099~1N4112

AXIAL LEAD ZENER DIODES

VOLTAGE 6.8 to 18 Volt **POWER** 500mWatt

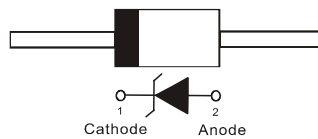
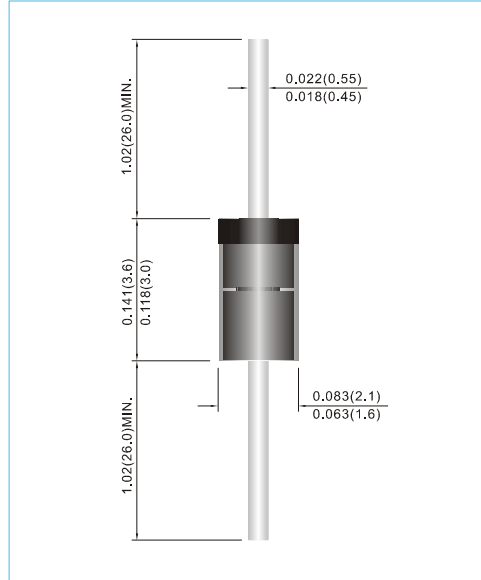
DO-35 Unit : inch(mm)

FEATURES

- Planar Die construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded Glass DO-35
- Terminals: Solderable per MIL-STD-750, Method 2026
- Packing information
 - B/P - 2K per Bulk box
 - T/R - 10K per 15" plastic Reel
 - T/B - 5K per horiz. tape & Ammo box



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Rating	Symbol	Value	Units
Power Dissipation at T _A = 25 °C	P _{TOT}	500	mW
Maximum Forward Voltage at I _F =100mA	V _F	1	V
Maximum Thermal Resistance Junction to Ambient Air (Notes 1)	R _{JA}	300	°C / W
Operating Junction Temperature Range	T _J	-55 to +175	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C

NOTES :

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

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Part Number	Nominal Zener Voltage			Max. Zener Impedance		Max. Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{zT} @ I _{ZT}		I _R @ V _R		
	Nom.V	Min.V	Max.V	Ω	mA	μA	V	
1N4099	6.8	6.460	7.140	200	0.25	10	5.2	1N4099
1N4100	7.5	7.125	7.875	200	0.25	10	5.7	1N4100
1N4101	8.2	7.790	8.610	200	0.25	1.0	6.3	1N4101
1N4102	8.7	8.265	9.135	200	0.25	1.0	6.7	1N4102
1N4103	9.1	8.645	9.555	200	0.25	1.0	7.0	1N4103
1N4104	10	9.50	10.50	200	0.25	1.0	7.6	1N4104
1N4105	11	10.45	11.55	200	0.25	0.05	8.5	1N4105
1N4106	12	11.40	12.60	200	0.25	0.05	9.2	1N4106
1N4107	13	12.35	13.65	200	0.25	0.05	9.9	1N4107
1N4108	14	13.30	14.70	200	0.25	0.05	10.7	1N4108
1N4109	15	14.25	15.75	100	0.25	0.05	11.4	1N4109
1N4110	16	15.20	16.80	100	0.25	0.05	12.2	1N4110
1N4111	17	16.15	17.85	100	0.25	0.05	13.0	1N4111
1N4112	18	17.10	18.90	100	0.25	0.05	13.7	1N4112

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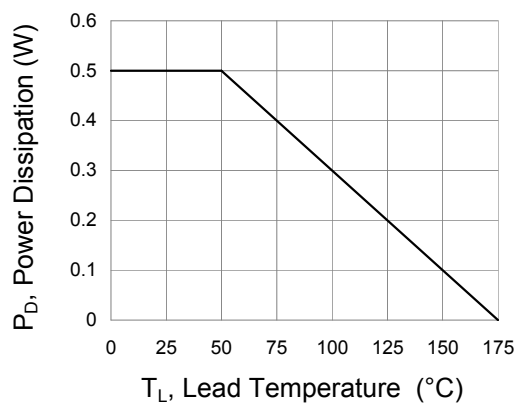


Fig.1 Power Derating Curve

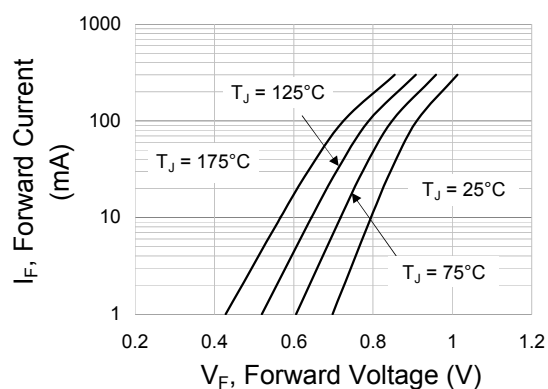


Fig.2 Typical Forward Characteristics

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Part No_packing code_Version

1N4099_AX_10001
 1N4099_AY_10001
 1N4099_R2_10001
 1N4099_B0_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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