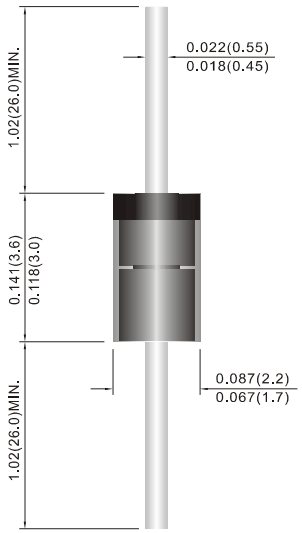
1N4614 SERIES

AXIAL LEAD ZENER DIODES

VOLTAGE 1.8 to 6.2 Volts **POWER** 500mWatts

DO-35 Unit : inch(mm)



FEATURES

- Planar Die construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded Glass DO-35
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.13 grams
- Mounting Position: Any
- Ordering information: Suffix : " -35 " to order DO-35 Package
- Packing information

  B - 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)	$R_{\theta JA}$	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	
1N4614	1.8	1.710	1.890	1200	0.25	7.5	1.0	1N4614
1N4615	2.0	1.900	2.100	1250	0.25	5.0	1.0	1N4615
1N4616	2.2	2.090	2.310	1300	0.25	4.0	1.0	1N4616
1N4617	2.4	2.280	2.520	1400	0.25	2.0	1.0	1N4617
1N4618	2.7	2.565	2.835	1500	0.25	1.0	1.0	1N4618
1N4619	3.0	2.850	3.150	1600	0.25	0.8	1.0	1N4619
1N4620	3.3	3.135	3.465	1650	0.25	7.5	1.5	1N4620
1N4621	3.6	3.420	3.780	1700	0.25	7.5	2.0	1N4621
1N4622	3.9	3.705	4.095	1650	0.25	5.0	2.0	1N4622
1N4623	4.3	4.085	4.515	1600	0.25	4.0	2.0	1N4623
1N4624	4.7	4.465	4.935	1550	0.25	10	3.0	1N4624
1N4625	5.1	4.845	5.355	1500	0.25	10	3.0	1N4625
1N4626	5.6	5.320	5.880	1400	0.25	10	4.0	1N4626
1N4627	6.2	5.890	6.510	1200	0.25	10	5.0	1N4627

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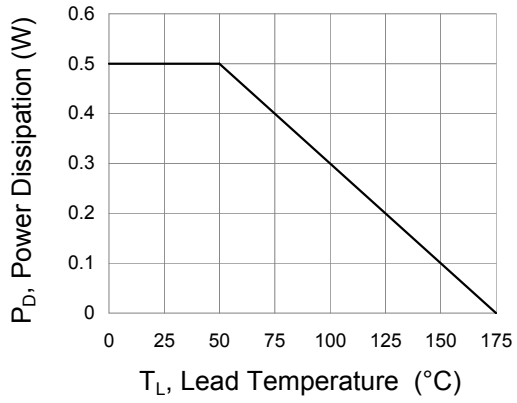

Fig.1 Power Derating Curve

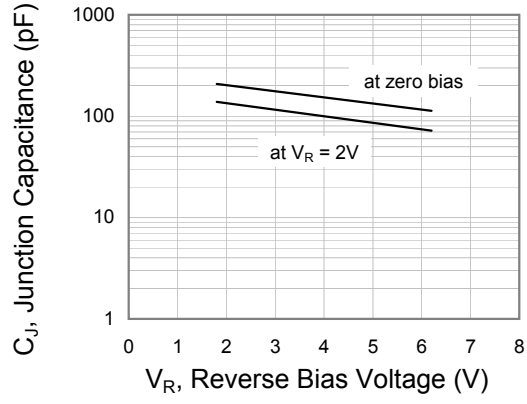

Fig.2 Typical Junction Capacitance

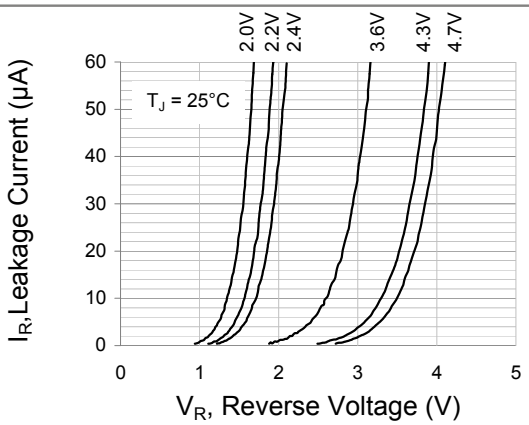

Fig.3 Typical Leakage Characteristics

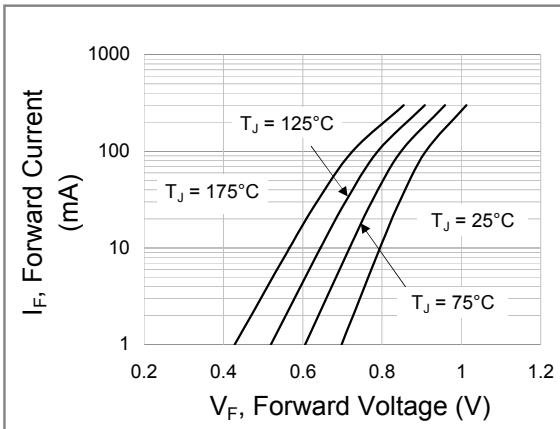

Fig.4 Typical Forward Characteristics

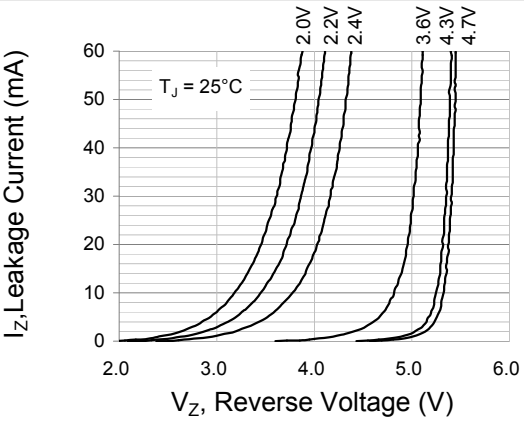

Fig.5 Typical Zener Characteristics

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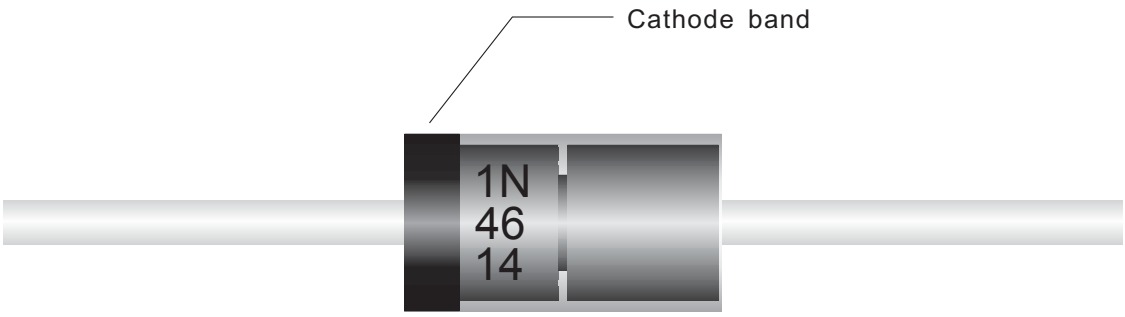
2. MARKING



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