

1N746A SERIES

AXIAL LEAD ZENER DIODES

VOLTAGE 3.3 to 12 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

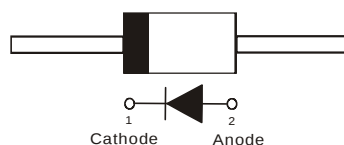
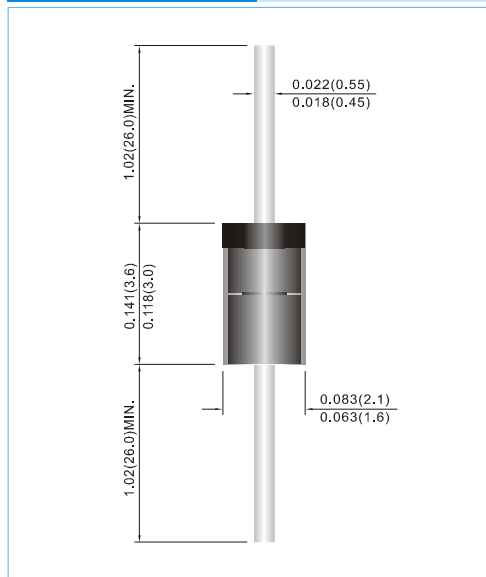
MECHANICAL DATA

- Case: Molded Glass DO-35
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00465 ounces, 0.131 grams
- Ordering information: Suffix : " -35 " to order DO-35 Package
- 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 Thermal Resistance Junction to Ambient Air (Notes 1)	R _{θJA}	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	
1N746A	3.3	3.135	3.465	28	20	10	1	1N746A
1N747A	3.6	3.420	3.780	24	20	10	1	1N747A
1N748A	3.9	3.705	4.095	23	20	10	1	1N748A
1N749A	4.3	4.085	4.515	22	20	2	1	1N749A
1N750A	4.7	4.465	4.935	19	20	2	1	1N750A
1N751A	5.1	4.845	5.355	17	20	1	1	1N751A
1N752A	5.6	5.320	5.880	11	20	1	1	1N752A
1N753A	6.2	5.890	6.510	7	20	0.1	1	1N753A
1N754A	6.8	6.460	7.140	5	20	0.1	1	1N754A
1N755A	7.5	7.125	7.875	6	20	0.1	1	1N755A
1N756A	8.2	7.790	8.610	8	20	0.1	1	1N756A
1N757A	9.1	8.645	9.555	10	20	0.1	1	1N757A
1N758A	10	9.50	10.5	17	20	0.1	1	1N758A
1N759A	12	11.4	12.6	30	20	0.1	1	1N759A

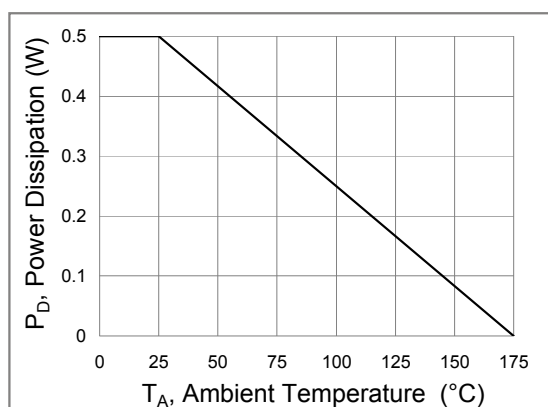


Fig.1 Steady-State Power Derating Curve

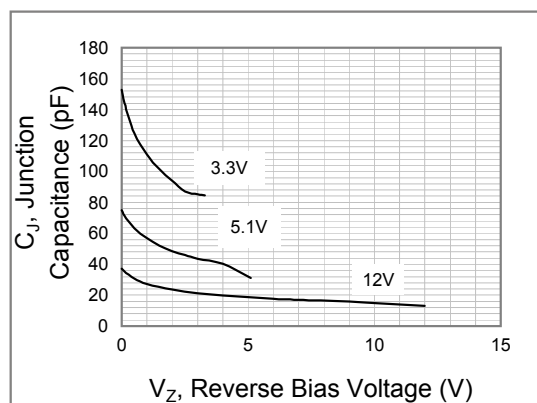


Fig.2 Typical Junction Capacitance

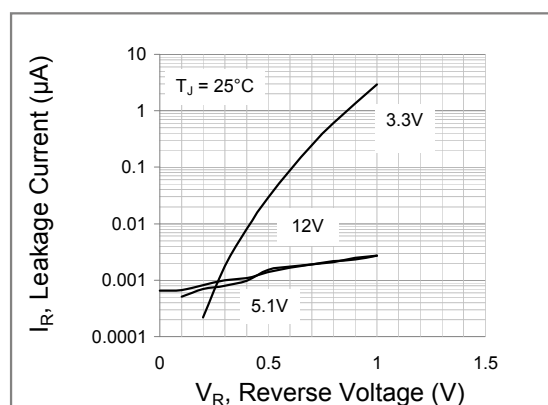


Fig.3 Typical Leakage Characteristics

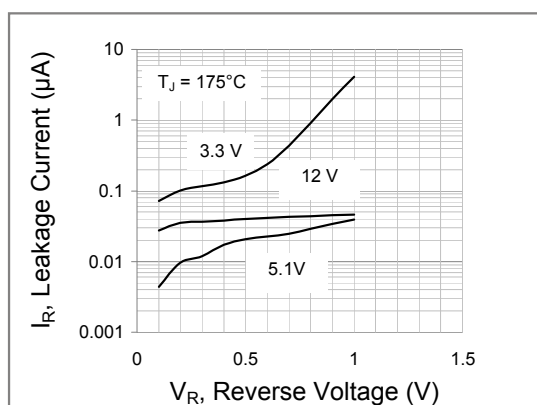


Fig.4 Typical Leakage Characteristics

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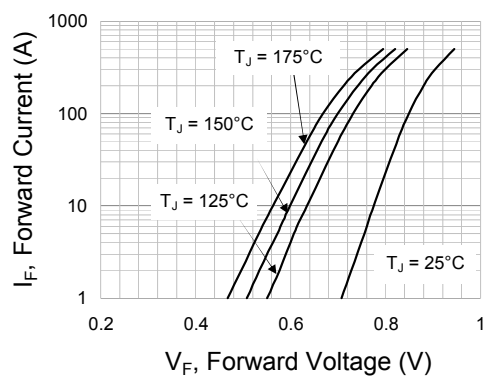


Fig.5 Typical Forward Characteristics

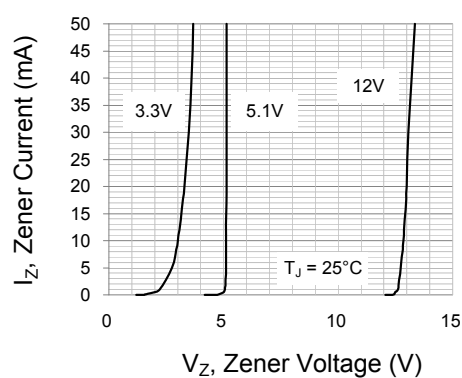


Fig.6 Typical Zener Characteristics

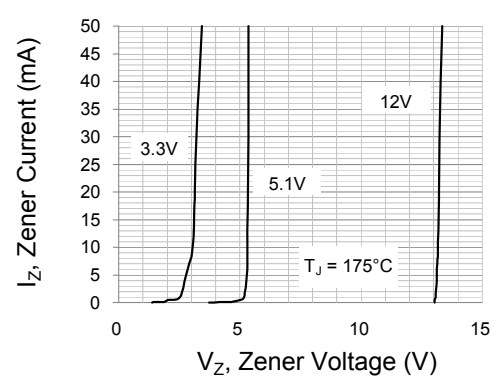


Fig.7 Typical Zener Characteristics

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Part No_packing code_Version

1N746A_AX_10001

1N746A_AY_10001

1N746A_R2_10001

1N746A_B0_10001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

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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