



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

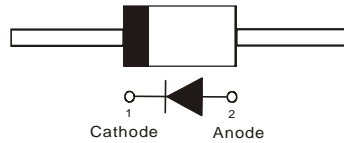
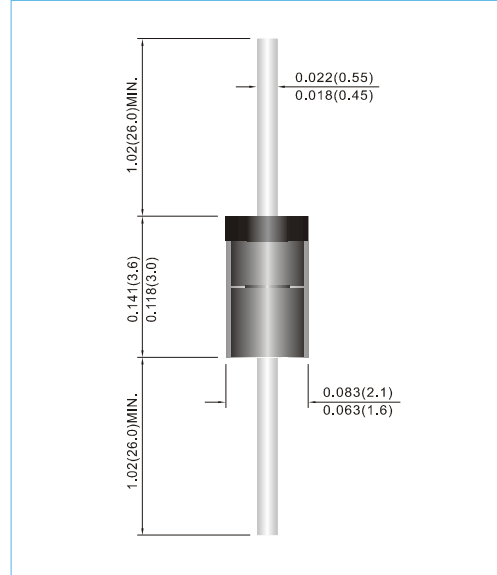
MECHANICAL DATA

- 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 - 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.



1N746A SERIES

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

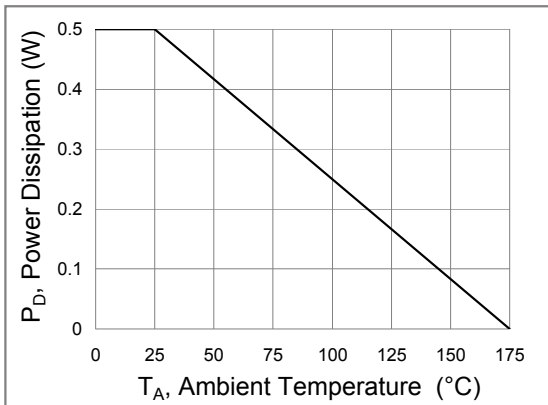


Fig.1 Steady-State Power Derating Curve

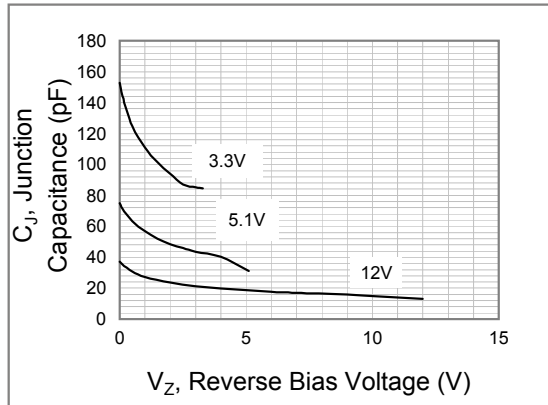


Fig.2 Typical Junction Capacitance

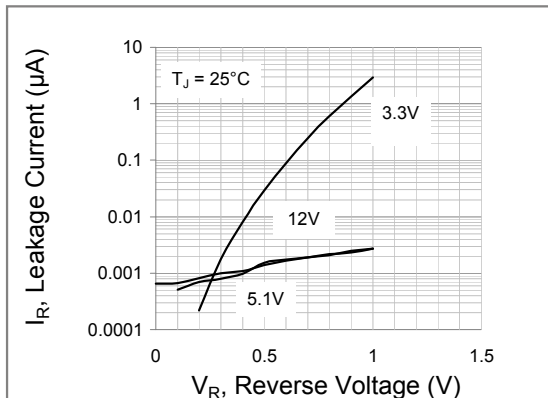


Fig.3 Typical Leakage Characteristics

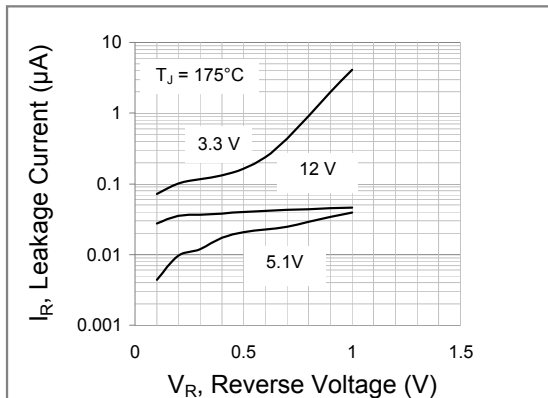


Fig.4 Typical Leakage Characteristics



1N746A SERIES

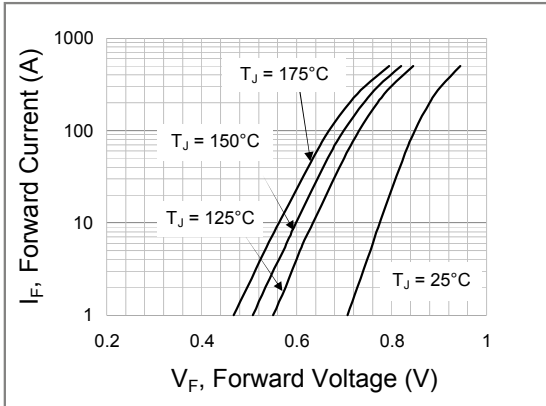


Fig.5 Typical Forward Characteristics

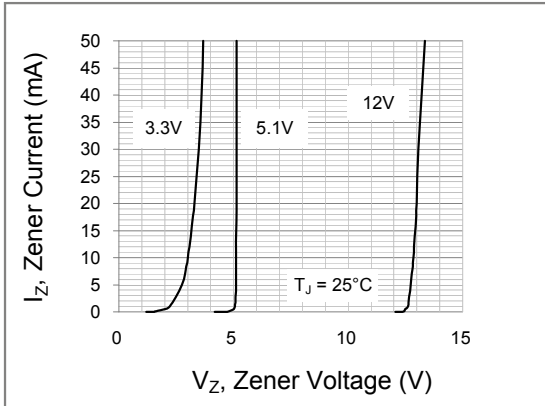


Fig.6 Typical Zener Characteristics

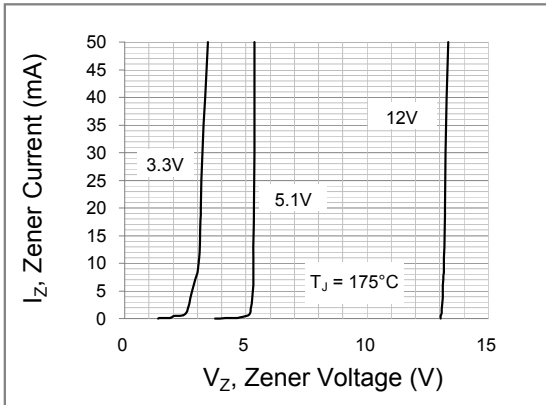


Fig.7 Typical Zener Characteristics



1N746A SERIES

Part No_packing code_Version

1N746A_AX_10001
1N746A_AY_10001
1N746A_R2_10001
1N746A_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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