

Obsolete



Micro Commercial Components



Micro Commercial Components
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1N746A
THRU
1N759A

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
Zener Voltage 3.3V to 12V
Silicon Planar Power Zener Diodes

0.5W Silicon Planar
Zener Diodes

Mechanical Data

- Moisture Sensitivity: Level 1
Case: DO-35 glass case
Marking : Cathode band and type number
Weight: Approx. 0.13 gram

Maximum Ratings

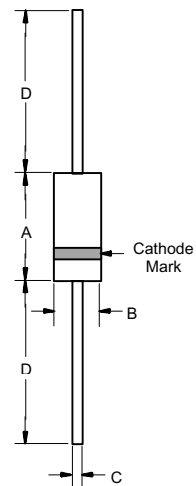
Table with 4 columns: Parameter, Symbol, Value, Units. Rows include Zener Current, Power Dissipation @ TA=50°C, Junction Temperature, and Storage Temperature Range.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Maximum, Unit. Rows include Thermal resistance and Forward Voltage @ IF=200mA.

- NOTE: 1) Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.
2) Valid provided that a distance of 8mm from case are kept at ambient temperature
3) Power derating: 4.0mW/°C above 50°C

DO-35



DIMENSIONS table with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A, B, C, D.

1N746A thru 1N759A

MCC PART NUMBER	NORMAL ZENER VOLTAGE $V_z @ I_{zt}$	TEST CURRENT I_{zt}	MAXIMUM ZENER IMPEDANCE $Z_{zt} @ I_{zt}$	MAXIMUM REVERSE LEAKAGE CURRENT $I_r @ V_r=1V$		MAXIMUM ZENER CURRENT I_{zm}	TYPICAL TEMP. COEFFICIENT
	VOLTS	mA	OHMS	$\mu A @ 25^\circ C$	$\mu A @ 125^\circ C$	mA	%/ $^\circ C$
1N746A	3.3	20	28	10	30	110	-.066
1N747A	3.6	20	24	10	30	100	-.058
1N748A	3.9	20	23	10	30	95	-.046
1N749A	4.3	20	22	2	30	85	-.033
1N750A	4.7	20	19	2	30	75	-.015
1N751A	5.1	20	17	1	20	70	± 0.10
1N752A	5.6	20	11	1	20	65	+0.030
1N753A	6.2	20	7.0	0.1	20	60	+0.049
1N754A	6.8	20	5.0	0.1	20	55	+0.053
1N755A	7.5	20	6.0	0.1	20	50	+0.057
1N756A	8.2	20	8.0	0.1	20	45	+0.060
1N757A	9.1	20	10	0.1	20	40	+0.061
1N758A	10	20	17	0.1	20	35	+0.062
1N759A	12	20	30	0.1	20	30	+0.062

Note:

- 1) Tested with pulses $t_p = 20ms$
- 2) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.
- 3) Zener impedance derived by superimposing on I_{zT} , a 60 Hz, rms ac current equal to 10% I_{zT} (2 mA ac)
- 4) Allowance has been made for the increase in V_z due to Z_z and for the increase in junction temperature as the unit approaches thermal equilibrium at the power dissipation of 400mW.
- 5) The part number shown with an A suffix have a 5% tolerance on nominal zener voltage. C signifies 2%.



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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