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Micro Commercial Components



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1N746A
THRU
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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

Mechanical Data

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

Maximum Ratings

	Symbol	Value	Units
Zener Current		See Table 1	
Power Dissipation @ $T_A=50^\circ\text{C}$ (Note2,3)	P_{tot}	500	mW
Junction Temperature	T_J	200	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to 200	$^\circ\text{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

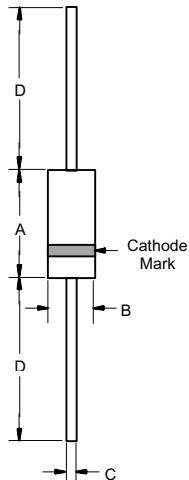
	Symbol	Maximum	Unit
Thermal resistance	$R_{\theta JA}$	300	$^\circ\text{C}/\text{W}$
Forward Voltage @ $I_F=200\text{mA}$	V_F	1.5	V

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/ $^\circ\text{C}$ above 50°C

0.5W Silicon Planar Zener Diodes

DO-35



DIM	DIMENSIONS				
	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.166	---	.4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

MCC PART NUMBER	NORMAL ZENER VOLTAGE Vz@ Izt	TEST CURRENT Izt	MAXIMUM ZENER IMPEDANCE Zzt @ Izt	MAXIMUM REVERSE LEAKAGE CURRENT Ir @ Vr=1V		MAXIMUM ZENER CURRENT Izm	TYPICAL TEMP. COEFFICIENT %/°C
	VOLTS	mA	OHMS	uA @25°C	uA @125°C	mA	
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	±.010
1N752A	5.6	20	11	1	20	65	+.030
1N753A	6.2	20	7.0	0.1	20	60	+.049
1N754A	6.8	20	5.0	0.1	20	55	+.053
1N755A	7.5	20	6.0	0.1	20	50	+.057
1N756A	8.2	20	8.0	0.1	20	45	+.060
1N757A	9.1	20	10	0.1	20	40	+.061
1N758A	10	20	17	0.1	20	35	+.062
1N759A	12	20	30	0.1	20	30	+.062

Note:

- 1) Tested with pulses $t_p=20\text{ms}$
- 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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