



Micro Commercial Components



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1N746
THRU
1N759

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

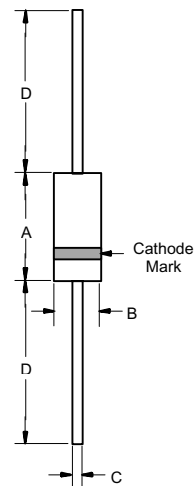
Mechanical Data

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

Maximum Ratings

	Symbol	Value	Units
Zener Current		See Table 1	
Power Dissipation @ T _A =50°C (Note2,3)	P _{tot}	500	mW
Junction Temperature	T _J	200	°C
Storage Temperature Range	T _{STG}	-65 to 200	°C

DO-35



Electrical Characteristics @ 25°C Unless Otherwise Specified

	Symbol	Maximum	Unit
Thermal resistance	R _{θJA}	300	°C/W
Forward Voltage @ I _F =200mA	V _F	1.5	V

- NOTE:**
- 1) Lead in Glass Exemption Applied, see EU Directive Annex 5.
 - 2) Valid provided that a distance of 8mm from case are kept at ambient temperature
 - 3) Power derating: 4.0mW/°C above 50°C

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

1N746 thru 1N759

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	%/°C
1N746	3.3	20	28	10	30	110	-.066
1N747	3.6	20	24	10	30	100	-.058
1N748	3.9	20	23	10	30	95	-.046
1N749	4.3	20	22	2	30	85	-.033
1N750	4.7	20	19	2	30	75	-.015
1N751	5.1	20	17	1	20	70	± 0.10
1N752	5.6	20	11	1	20	65	+0.030
1N753	6.2	20	7.0	0.1	20	60	+0.049
1N754	6.8	20	5.0	0.1	20	55	+0.053
1N755	7.5	20	6.0	0.1	20	50	+0.057
1N756	8.2	20	8.0	0.1	20	45	+0.060
1N757	9.1	20	10	0.1	20	40	+0.061
1N758	10	20	17	0.1	20	35	+0.062
1N759	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) Standard zener voltage tolerance is $\pm 10\%$, Add suffix "A" for $\pm 5\%$ tolerance, "C" for $\pm 2\%$ tolerance.



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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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