

Micro Commercial Components

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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
- Standard zener voltage tolerance is ±10%, Add suffix "A" for ±5% tolerance, "C" for ±2% tolerance.

Mechanical Data

- Moisture Sensitivity: Level 1 per J-STD-020C
- 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	ТJ	200	°C
Storage Temperature Range	T _{STG}	-65 to 200	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

	Symbol	Maximum	Unit
Thermal resistance	R _{0JA}	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

0.5W Silicon Planar Zener Diodes



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1N746 thru 1N759



	NORMAL	TEOT	MAXIMUM			MAXIMUM	
MCC PART	ZENER	TEST	ZENER	MAXIMUM	REVERSE	ZENER	
NUMBER	VOLTAGE	CURRENT	IMPEDANCE	LEAKAGE	CURRENT	CURRENT	TYPICAL TEMP.
NOMBER	Vz@ Izt	Izt	Zzt @ Izt	lr @	Vr=1V	L	COEFFICIENT
	VOLTS	mA	OHMS	uA @25∘C	uA @125ºC	mA	%/ºC
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	±.010
1N752	5.6	20	11	1	20	65	+.030
1N753	6.2	20	7.0	0.1	20	60	+.049
1N754	6.8	20	5.0	0.1	20	55	+.053
1N755	7.5	20	6.0	0.1	20	50	+.057
1N756	8.2	20	8.0	0.1	20	45	+.060
1N757	9.1	20	10	0.1	20	40	+.061
1N758	10	20	17	0.1	20	35	+.062
1N759	12	20	30	0.1	20	30	+.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.

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel 10Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Bag

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