

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N4099 thru 1N4135

250mW ZENER DIODE  
5% TOLERANCE

JEDEC DO-35 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4099 Series types are high quality Silicon Zener Diodes designed for low leakage, low current and low noise applications.

## MAXIMUM RATINGS (T<sub>A</sub> = 25°C)

	SYMBOL	UNIT
Power Dissipation	P <sub>D</sub>	250 mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	- 65 TO + 200 °C
Tolerance (No Suffix)		± 5 %
Tolerance "C Suffix"		± 2 %
Tolerance "D Suffix"		± 1 %

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C)

TYPE NO.	Zener Voltage	Test Current	Max. Zener Impedance	Max. Reverse Leakage Current		Max. DC Current	Max. Noise Density
	V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	I <sub>R</sub> @ V <sub>R</sub>		I <sub>ZM</sub>	N <sub>D</sub>
	V	μA	Ω	μA	V	mA	μV/√Hz
1N4099	6.8	250	200	10	5.2	35.0	40
1N4100	7.5	250	200	10	5.7	31.8	40
1N4101	8.2	250	200	1.0	6.3	29.0	40
1N4102	8.7	250	200	1.0	6.7	27.4	40
1N4103	9.1	250	200	1.0	7.0	26.2	40
1N4104	10	250	200	1.0	7.6	24.8	40
1N4105	11	250	200	0.05	8.5	21.6	40
1N4106	12	250	200	0.05	9.2	20.4	40
1N4107	13	250	200	0.05	9.9	19.0	40
1N4108	14	250	200	0.05	10.7	17.5	40
1N4109	15	250	100	0.05	11.4	16.3	40
1N4110	16	250	100	0.05	12.2	15.4	40
1N4111	17	250	100	0.05	13.0	14.5	40
1N4112	18	250	100	0.05	13.7	13.2	40
1N4113	19	250	150	0.05	14.5	12.5	40
1N4114	20	250	150	0.01	15.2	11.9	40
1N4115	22	250	150	0.01	16.8	10.8	40
1N4116	24	250	150	0.01	18.3	9.9	40
1N4117	25	250	150	0.01	19.0	9.5	40
1N4118	27	250	150	0.01	20.5	8.8	40
1N4119	28	250	200	0.01	21.3	8.5	40
1N4120	30	250	200	0.01	22.8	7.9	40
1N4121	33	250	200	0.01	25.1	7.2	40
1N4122	36	250	200	0.01	27.4	6.6	40
1N4123	39	250	200	0.01	29.7	6.1	40
1N4124	43	250	250	0.01	32.7	5.5	40
1N4125	47	250	250	0.01	35.8	5.1	40
1N4126	51	250	300	0.01	38.8	4.6	40
1N4127	56	250	300	0.01	42.6	4.2	40
1N4128	60	250	400	0.01	45.6	4.0	40
1N4129	62	250	500	0.01	47.1	3.8	40
1N4130	68	250	700	0.01	51.7	3.5	40
1N4131	75	250	700	0.01	57.0	3.1	40
1N4132	82	250	800	0.01	62.4	2.9	40
1N4133	87	250	1000	0.01	66.2	2.7	40
1N4134	91	250	1200	0.01	69.2	2.6	40
1N4135	100	250	1500	0.01	76.0	2.3	40

± 1% or ± 2% Tolerance devices may be supplied in DO-35 or DO-7 case.