

1N4099 THRU 1N4135

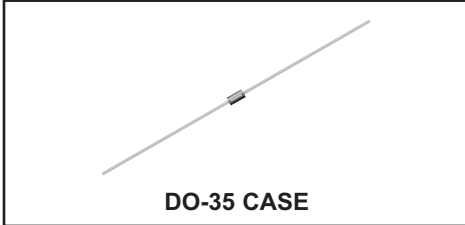
**SILICON ZENER DIODE
LOW NOISE
6.8 VOLT THRU 100 VOLT
250mW, 5% TOLERANCE**



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N4099 series silicon Zener diode is designed for low leakage, low current, and low noise applications.



DO-35 CASE

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Power Dissipation
Operating and Storage Junction Temperature

SYMBOL

P_D 250
 T_J, T_{stg} -65 to +200

UNITS

mW
 $^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.1\text{V MAX @ } I_F=200\text{mA}$ (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM NOISE DENSITY
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$I_R @ V_R$		I_{ZM}	$N_D @ 250\mu\text{A}$
	V	V	V	μA	Ω	μA	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$
1N4099	6.460	6.8	7.140	250	200	10	5.2	35.0	40
1N4100	7.125	7.5	7.875	250	200	10	5.7	31.8	40
1N4101	7.790	8.2	8.610	250	200	1.0	6.3	29.0	40
1N4102	8.265	8.7	9.135	250	200	1.0	6.7	27.4	40
1N4103	8.645	9.1	9.555	250	200	1.0	7.0	26.2	40
1N4104	9.50	10	10.50	250	200	1.0	7.6	24.8	40
1N4105	10.45	11	11.55	250	200	0.05	8.5	21.6	40
1N4106	11.40	12	12.60	250	200	0.05	9.2	20.4	40
1N4107	12.35	13	13.65	250	200	0.05	9.9	19.0	40
1N4108	13.30	14	14.70	250	200	0.05	10.7	17.5	40
1N4109	14.25	15	15.75	250	100	0.05	11.4	16.3	40
1N4110	15.20	16	16.80	250	100	0.05	12.2	15.4	40
1N4111	16.15	17	17.85	250	100	0.05	13.0	14.5	40
1N4112	17.10	18	18.90	250	100	0.05	13.7	13.2	40
1N4113	18.05	19	19.95	250	150	0.05	14.5	12.5	40
1N4114	19.00	20	21.00	250	150	0.01	15.2	11.9	40
1N4115	20.90	22	23.10	250	150	0.01	16.8	10.8	40
1N4116	22.80	24	25.20	250	150	0.01	18.3	9.9	40
1N4117	23.75	25	26.25	250	150	0.01	19.0	9.5	40
1N4118	25.65	27	28.35	250	150	0.01	20.5	8.8	40
1N4119	26.60	28	29.40	250	200	0.01	21.3	8.5	40
1N4120	28.50	30	31.50	250	200	0.01	22.8	7.9	40
1N4121	31.35	33	34.65	250	200	0.01	25.1	7.2	40

R1 (4-February 2014)

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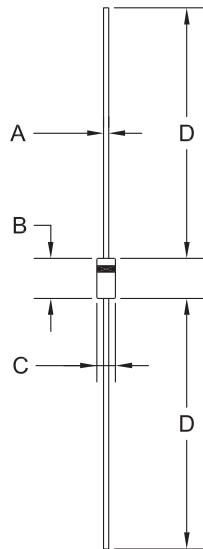
SILICON ZENER DIODE
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ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$) $V_F=1.1\text{V MAX @ } I_F=200\text{mA}$ (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM NOISE DENSITY
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$I_R @ V_R$		I_{ZM}	$N_D @ 250\mu\text{A}$
	V	V	V	μA	Ω	μA	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$
1N4122	34.20	36	37.80	250	200	0.01	27.4	6.6	40
1N4123	37.05	39	40.95	250	200	0.01	29.7	6.1	40
1N4124	40.85	43	45.15	250	250	0.01	32.7	5.5	40
1N4125	44.65	47	49.35	250	250	0.01	35.8	5.1	40
1N4126	48.45	51	53.55	250	300	0.01	38.8	4.6	40
1N4127	53.20	56	58.80	250	300	0.01	42.6	4.2	40
1N4128	57.00	60	63.00	250	400	0.01	45.6	4.0	40
1N4129	58.90	62	65.10	250	500	0.01	47.1	3.8	40
1N4130	64.60	68	71.40	250	700	0.01	51.7	3.5	40
1N4131	71.25	75	78.75	250	700	0.01	57.0	3.1	40
1N4132	77.90	82	86.10	250	800	0.01	62.4	2.9	40
1N4133	82.65	87	91.35	250	1.0K	0.01	66.2	2.7	40
1N4134	86.45	91	95.55	250	1.2K	0.01	69.2	2.6	40
1N4135	95.00	100	105.0	250	1.5K	0.01	76.0	2.3	40

DO-35 CASE - MECHANICAL OUTLINE



R1

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.018	0.022	0.46	0.56
B	0.120	0.200	3.05	5.08
C	0.060	0.090	1.52	2.29
D	1.000	-	25.40	-

DO-35 (REV: R1)

MARKING: FULL PART NUMBER

R1 (4-February 2014)



OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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