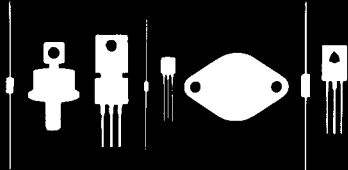


Central Semiconductor Corp.
 Central Semiconductor Corp.
Central Semiconductor Corp.
Central Semiconductor Corp.

145 Adams Avenue
 Hauppauge, New York 11788



1N3506 THRU 1N3534

400mW ZENER DIODE
 LOW LEAKAGE
 3.3 VOLTS TO 47 VOLTS
 5% TOLERANCE

JEDEC D0-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N3506 Series Zener Diode is a high quality voltage regulator for use in automotive, industrial, commercial, entertainment and computer applications where low leakage (reverse) current is required.

ABSOLUTE MAXIMUM RATINGS

	SYMBOL		TOLERANCE
Power Dissipation	P_D	400mW	±5%
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +200°C	

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$)

TYPE	ZENER VOLTAGE	TEST CURRENT	MAX.	MAX.
	$V_Z @ I_{ZT}$		ZENER IMPEDANCE	REVERSE CURRENT
	$\frac{V}{V}$	$\frac{mA}{mA}$	$\frac{\Omega}{\Omega}$	$\frac{\mu A}{\mu A}$ $\frac{V}{V}$
1N3506	3.3	20	24	4.0 1.0
1N3507	3.6	20	22	2.0 1.0
1N3508	3.9	20	20	0.4 1.0
1N3509	4.3	20	18	0.1 1.0
1N3510	4.7	20	16	5.0 2.0
1N3511	5.1	20	14	2.0 2.0
1N3512	5.6	20	8.0	5.0 3.0
1N3513	6.2	20	3.0	5.0 4.0
1N3514	6.8	20	3.0	1.0 5.0
1N3515	7.5	10	4.0	0.5 6.0
1N3516	8.2	10	5.0	0.25 7.0
1N3517	9.1	10	6.0	0.025 7.0
1N3518	10	10	7.0	0.01 8.0
1N3519	11	10	8.0	0.01 9.0
1N3520	12	10	10	0.01 10
1N3521	13	5.0	12	0.01 11
1N3522	15	5.0	14	0.01 13
1N3523	16	5.0	16	0.01 14
1N3524	18	5.0	18	0.01 16
1N3525	20	5.0	20	0.01 18
1N3526	22	5.0	35	0.01 19
1N3527	24	5.0	38	0.01 20
1N3528	27	4.0	40	0.01 22
1N3529	30	4.0	48	0.01 24
1N3530	33	3.0	50	0.01 26
1N3531	36	3.0	75	0.01 28
1N3532	39	3.0	80	0.01 30
1N3533	43	2.0	130	0.01 35
1N3534	47	2.0	150	0.01 38

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).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms