

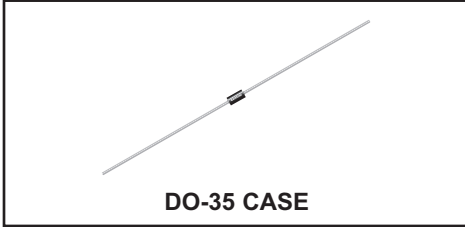
1N5306-20
SILICON
CURRENT LIMITING DIODE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N5306-20 is a silicon field effect current regulator diode designed for applications requiring a constant current over a wide voltage range. These devices are manufactured in the cost effective DO-35 double plug case which provides many benefits to the user, including space savings and improved thermal characteristics.



DO-35 CASE

MARKING CODE: C5306-20

MAXIMUM RATINGS: ($T_L=75^\circ\text{C}$)

Peak Operating Voltage
Power Dissipation
Operating and Storage Junction Temperature

SYMBOL

P_{OV} 100
 P_D 600
 T_J, T_{stg} -65 to +200

UNITS

V
mW
 $^\circ\text{C}$

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

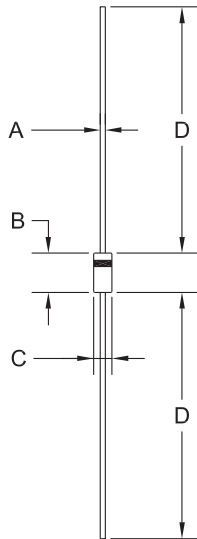
Regulator Current (Note 1) $I_p @ V_T=25\text{V}$			Minimum Dynamic Impedance $Z_T @ V_T=25\text{V}$	Minimum Knee Impedance $Z_K @ V_K=6.0\text{V}$	Maximum Limiting Voltage $V_L @ I_L=0.8 \times I_p \text{ MIN}$
MIN mA	NOM mA	MAX mA	$\text{M}\Omega$	$\text{M}\Omega$	V
1.76	2.20	2.64	0.370	0.052	1.95

Note 1: Pulsed Method: Pulse Width = 12.5ms

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DO-35 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	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 CODE: C5306-20

R1

R0 (21-December 2015)

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

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