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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.

MARKING CODE: C5306-20

MAXIMUM RATINGS: (TL=75°C)	SYMBOL		UNITS
Peak Operating Voltage	POV	100	V
Power Dissipation	PD	600	mW
Operating and Storage Junction Temperature	т _Ј , т _{stg}	-65 to +200	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

	Regulator Current (Note 1) Ip @ V _T =25V		Minimum Dynamic Impedance Z _T @ V _T =25V	Minimum Knee Impedance Z _K @ V _K =6.0V	Maximum Limiting Voltage V∟ @ I∟=0.8 x Ip MIN
MIN mA	NOM mA	MAX mA	MΩ	MΩ	v
1.76	2.20	2.64	0.370	0.052	1.95

Note 1: Pulsed Method: Pulse Width = 12.5ms

R0 (21-December 2015)

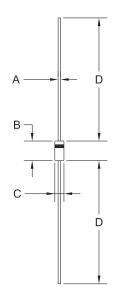


1N5306-20

SILICON CURRENT LIMITING DIODE

DO-35 CASE - MECHANICAL OUTLINE

R1



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.018	0.022	0.46	0.56			
В	0.120	0.200	3.05	5.08			
С	0.060	0.090	1.52	2.29			
D	1.000	_	25.40	-			
DO 25 (DEV/· D1)							

DO-35 (REV: R1)

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R0 (21-December 2015)

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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

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

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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

CONTACT US

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