

145 Adams Ave., Hauppauge, NY 11788 USA Phone (631) 435-1110 FAX (631) 435-1824

Manufacturers of World Class Discrete Semiconductors www.centralsemi.com 1N3595

SILICON LOW LEAKAGE DIODE

JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N3595 is an epitaxial planar silicon diode designed for low leakage, high conductance applications. Higher breakdown voltage devices are available on special order.

MAXIMUM RATINGS: (T_A=25°C)

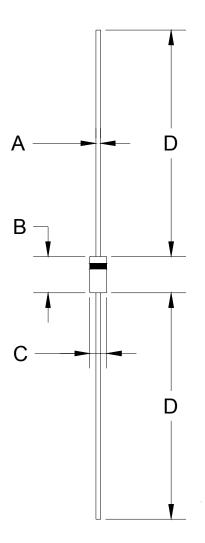
	SYMBOL		<u>UNITS</u>
Peak Repetitive Reverse Voltage	V_{RRM}	150	V
Peak Working Reverse Voltage	V_{RWM}	125	V
Average Forward Current	lo	150	mA
Forward Steady-State Current	l _F	225	mA
Recurrent Peak Forward Current	i _f	600	mA
Peak Forward Surge Current (1.0s pulse)	^I FSM	500	mA
Peak Forward Surge Current (1.0µs pulse)	^I FSM	4.0	Α
Power Dissipation	P_{D}	500	mW
Operating and Storage Junction Temperature	T _J ,T _{stg}	-65 to +200	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	<u>MIN</u>	MAX	<u>UNITS</u>
I _R	V _R =125V		1.0	nA
I_{R}	V _R =125V, T _A =125°C		500	nA
IR	V _R =125V, T _A =150°C		3.0	μΑ
IR	V _R =30V, T _A =125°C		300	nA
BVR	I _R =100μA	150		V
VF	I _F =1.0mA	0.54	0.69	V
V _F	I _F =5.0mA	0.62	0.77	V
V _F	I _F =10mA	0.65	0.80	V
v _F	I _F =50mA	0.75	0.88	V
V _F	I _F =100mA	0.79	0.92	V
V _F	I _F =200mA	0.83	1.0	V
C _T	V _R =0, f=1.0MHz		8.0	pF
t _{rr}	$V_R = 3.5V$, $I_f = 10$ mA, $R_L = 1.0$ k Ω		3.0	μs

Low Leakage Diode 1N3595

JEDEC DO-35 CASE - MECHCANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	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-35 (REV: R0)

Marking Code: C1N3595

R1



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 guick 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

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