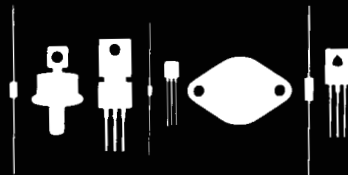


Central
 Semiconductor Corp.
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 145 Adams Avenue
 Hauppauge, New York 11788



1N4446 THRU 1N4449

SILICON SWITCHING DIODE

JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4446 series types are very high speed Silicon Switching Diodes designed for computer and general purpose applications.

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

	<u>SYMBOL</u>		<u>UNIT</u>
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Peak Working Reverse Voltage	V_{RWM}	75	V
Average Forward Current	I_O	150	mA
Forward Steady-State Current	I_F	200	mA
Peak Forward Surge Current (1.0 μs pulse)	I_{FSM}	2000	mA
Power Dissipation	P_D	500	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +200	$^{\circ}\text{C}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	1N4446		1N4447		1N4448		1N4449		<u>UNIT</u>
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
BV_R	$I_R=5\mu\text{A}$	75		75		75		75		V
BV_R	$I_R=100\mu\text{A}$	100		100		100		100		V
I_R	$V_R=20\text{V}$		25		25		25		25	nA
I_R	$V_R=20\text{V}, T_A=100^{\circ}\text{C}$		-		-		3.0		3.0	μA
I_R	$V_R=20\text{V}, T_A=150^{\circ}\text{C}$		50		50		50		50	μA
V_F	$I_F=5.0\text{mA}$	-	-	-	-	0.62	0.72	0.63	0.73	V
V_F	$I_F=20\text{mA}$		1.0		1.0		-		-	V
V_F	$I_F=30\text{mA}$		-		-		-		1.0	V
V_F	$I_F=100\text{mA}$		-		-		1.0		-	V
C_T	$V_R=0, f=1.0\text{ MHz}$		4.0		2.0		4.0		2.0	pF
t_{rr}	$V_R=6.0\text{V}, I_F=10\text{mA},$ $I_{rr}=1.0\text{mA}, R_L=100\Omega$		4.0		4.0		4.0		4.0	nS
$V_{FM}(\text{REC})$	$I_F=50\text{mA}, R_L=50\Omega$		-		-		2.5		2.5	V

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

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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



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01021
Notification Date:	2/23/16
Last Buy Date:	8/23/16
Last Shipment Date	2/23/17

Summary: The 1N4448 Series of silicon switching diodes is discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement
1N4446 BK	1N4148 BK
1N4446 TR	1N4148 TR
1N4448 BK	1N4148 BK
1N4448 TR	1N4148 TR
1N4449 BK	1N4148 BK

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Central Semiconductor:](#)

[1N4448](#) [1N4446 TR](#)