

145 Adams Avenue, Hauppauge, NY 11788 USA Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

UF4001 THRU UF4007

ULTRA FAST SILICON RECTIFIER 1.0 AMPS, 50 THRU 1000 VOLTS

JEDEC DO-41 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR UF4001 series types are silicon ultra fast recovery rectifiers designed for those applications requiring extremely fast recovery times at a low cost.

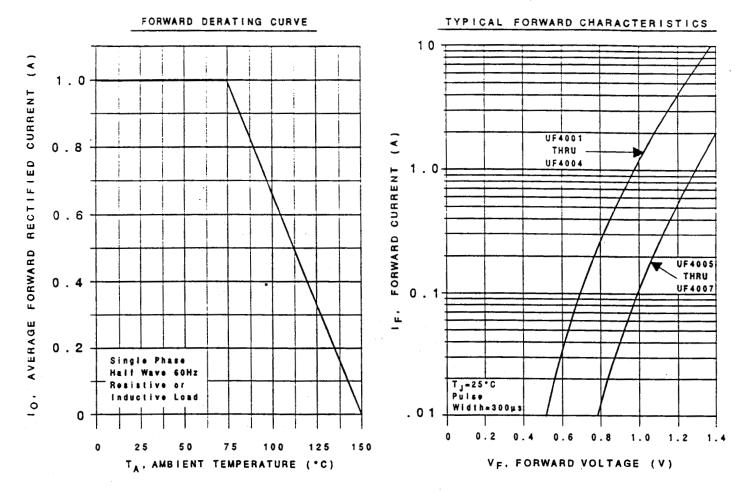
MAXIMUM RATINGS (TA=25°C unless otherwise noted)

		UF	UF	UF	UF	UF	UF	UF	
	SYMBOL	<u>4001</u>	<u>4002</u>	4003	<u>4004</u>	<u>4005</u>	<u>4006</u>	<u>4007</u>	<u>UNITS</u>
Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	v_{R}	50	100	200	400	600	800	1000	V
RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Forward Current(T _A =75°C)	10				1.0				Α
Peak Forward Surge Current									
(8.3 ms single half sine wave)	^I FSM				30				Α
Operating and Storage									
Junction Temperature	T_{J}, T_{stg}			-65	5 to +150	כ			°C
Thermal Resistance	$\Theta_{\sf JA}$				50				°C/W

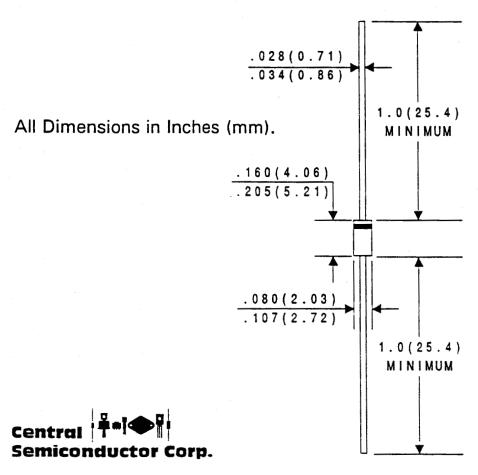
<u>ELECTRICAL CHARACTERISTICS</u> (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	<u>UNITS</u>
I _R	V _R =Rated V _{RRM}			10	μА
^I R	V _R =Rated V _{RRM,} T _A =100°C			100	μA
V_{F}	I _F =1.0A (50V THRU 400V)			1.0	V
V_{F}	I _F =1.0A (600V THRU 1000V)			1.7	V
t _{rr}	I _R =1.0A, I _F =0.5A, Rec. to 0.25A (50V THRU 400V)			50	ns
t _{rr}	I _R =1.0A, I _F =0.5A, Rec. to 0.25A (600V THRU 1000V)			75	ns
c_j	V _R =4.0V, f=1.0 MHz (50V THRU 400V)		20		рF
c_j	V _R =4.0V, f=1.0 MHz (600V THRU 1000V)		10		р F

UF4001 SERIES RATING AND CHARACTERISTICS CURVES



JEDEC DO-41 CASE - MECHANICAL OUTLINE



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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Worldwide Distributors:

www.centralsemi.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.centralsemi.com/terms

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Product End of Life Notification

PDN ID:	PDN01032
Notification Date:	8/15/16
Last Buy Date:	2/15/17
Last Shipment Date	8/15/17

Summary: The UF4001 series of 1 Amp, Ultra Fast, silicon rectifiers 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
UF4001 BK	N/A
UF4001 TR	N/A
UF4002 BK	N/A
UF4002 TR	N/A
UF4003 BK	N/A
UF4003 TR	N/A
UF4004 BK	N/A
UF4004 TR	N/A
UF4005 BK	N/A
UF4005 TR	N/A
UF4006 BK	N/A
UF4006 TR	N/A
UF4007 BK	N/A
UF4007 TR	N/A

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@centralsemi.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.

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