CR70U-010 SERIES

70 AMP ULTRA FAST RECOVERY SILICON RECTIFIER 100 THRU 800 VOLTS



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CR70U-010 Series types are 70 Amp stud mounted ultra fast recovery silicon rectifiers which are high quality, well constructed, highly reliable components designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _C =25°C unles	ss otherwise	noted)		CR7	<u>0U</u>			
. 0	SYMBOL	<u>-010</u>	<u>-015</u>	-020	<u>-040</u>	-060	<u>-080</u>	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	150	200	400	600	800	V
DC Blocking Voltage	V_{R}	100	150	200	400	600	800	V
RMS Reverse Voltage	V _{R(RMS)}	70	105	140	280	420	560	V
Peak Forward Surge Current (8.3ms)	I_{FSM}	1000	1000	1000	800	700	700	Α
Average Forward Current, T _C =120°C	IO			70)			Α
Operating and Storage Junction Temperature	T _J , T _{stg}			-65 to	+175			°C
Thermal Resistance	ΘJC			0.8	8			°C/W

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

CR70U-010 CR70U-020 CR70U-060

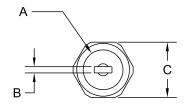
		CR70U-015		CR70U-020 CR70U-040		CR70U-080 CR70U-080			
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS	
I_{R}	V_R =Rated V_{RRM}	-	25	-	25	-	25	μΑ	
I_{R}	V_R =Rated V_{RRM} , T_C =125°C	-	3.0	-	3.0	-	3.0	mA	
V_{F}	I _F =70A	-	0.975	-	1.30	-	1.35	V	
t _{rr}	I _F =0.5A, I _R =1.0A, Rec. to 0.25A	-	50	-	75	-	100	ns	

CR70U-010 SERIES

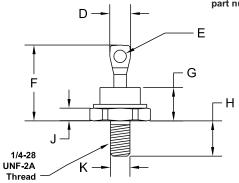
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DO-5 CASE - MECHANICAL OUTLINE



Note: Normal Polarity: Cathode to Stud (Case) For Reverse Polarity add "R" Suffix to part number (Example: CR70U-040R)



R1

DIMENSIONS						
	INC	HES	MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	•	0.667	-	16.94		
В	-	0.080	-	2.03		
С	0.667	0.687	16.94	17.45		
D	-	0.375	-	9.53		
Е	0.140	0.175	3.56	4.45		
F	-	1.000	-	25.40		
G	-	0.450	-	11.43		
Н	0.422	0.453	10.72	11.51		
J	0.115	0.200	2.92	5.08		
K	-	0.227	-	5.76		

MARKING: FULL PART NUMBER

DO-5 (REV: R1)

R3 (23-November 2009)

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

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Product End of Life Notification

PDN ID:	PDN01087
Notification Date:	8/07/18
Last Buy Date:	2/07/19
Last Shipment Date	8/07/19

Summary: All 70 amp ultra-fast recovery rectifiers in the DO-5 package are 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 other 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 ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Central Part Number	<u>Replacement</u>
CR70U-040	N/A, Stock Only
CR70U-080	N/A, Stock Only

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.

CCC785 REV 002