CS65-70B SERIES

SILICON CONTROLLED RECTIFIERS 70 AMP, 200 THRU 1200 VOLT

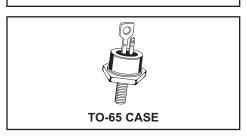


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR C65-70B series is a high power Silicon Controlled Rectifier designed for phase control applications.





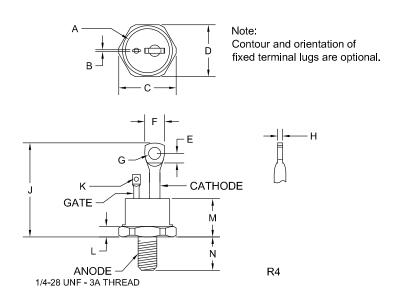
MAXIMUM RA	therwise noted)	700	CS65			7000	LIMITO		
Peak Repetitive Off-State Voltage		SYMBOL VDRM, VRRM	<u>-70B</u> 200	<u>-70D</u> 400	<u>-70M</u> 600	<u>-70N</u> 800	<u>-70P</u> 1000	<u>-70PB</u> 1200	UNITS V
Peak Non-Repetitive Reverse Voltage		V _{RSM}	300	500	700	900	1100	1300	V
RMS On-State Current (T _C =102°C)		IT(RMS)			63	3			Α
Average On-State Current (T _C =102°C)		I _{T(AV)}			40)			Α
Peak One Cycle Surge Current (60Hz)		ITSM		1000				Α	
I ² t Value for Fusing (t=8.3ms)		I ² t		4100				A^2s	
Peak Forward Gate Voltage		V_{FGM}		20				V	
Peak Reverse Gate Voltage		V_{RGM}		10					V
Peak Gate Power		P_{GM}			10)			W
Average Gate Power (tp=10µs)		P _G (AV)		1.0				W	
Peak Forward Gate Current		I _{FGM}		3.0				Α	
Critical Rate of Rise of On-State Current		di/dt			20	0			A/µs
Operating Junction Temperature		T_J			-65 to	+125			°C
Storage Temperature		T _{stg}			-65 to	+150			°C
Thermal Resistance		Θ JC			0.3	35			°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)									
SYMBOL	TEST CONDITIONS		MIN	,	MA			UNITS	
I _{DRM} , I _{RRM}	V _D =Rated V _{DRM} , V _{RRM}	₁ , T _C =125°C			6.	0		mA	
^I GT	V_D =12V, R_L =33 Ω				10	0		mA	
lΗ	I _T =500mA				20	0		mA	
V_{GT}	V_D =12V, R_L =33 Ω				3.	0		V	
V_{TM}	I _{TM} =500A				3.	0		V	
dv/dt	$V_D = 0.67 \times V_{DRM}, T_C = 12$	25°C	200					V/µs	

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TO-65 CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INC	HES	MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A (DIA)	-	0.667	-	16.94	
В	0.014	0.030	0.35	0.76	
С	-	0.770	-	19.56	
D	0.667	0.687	16.94	17.45	
E	0.120	-	3.05	-	
F	0.200	0.300	5.08	7.62	
G (DIA)	0.125	0.165	3.18	4.19	
Н	0.026	0.085	0.65	2.15	
J	1.000	1.339	25.40	34.00	
K (DIA)	0.053	0.075	1.35	1.91	
L	0.113	0.210	2.87	5.33	
M	-	0.622	-	15.80	
N	0.422	0.453	10.72	11.51	
		1	O-65 (R	EV: R4)	

R5 (17-April 2018)

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

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

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Product End of Life Notification

PDN ID:	PDN01091
Notification Date:	5/02/18
Last Buy Date:	11/02/18
Last Shipment Date	5/02/19

Summary: The CS65-70M and CEN1284 Silicon Controlled Rectifiers 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	Replacement
CEN1284	N/A
CS65-70M	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.

CCC785 REV 002