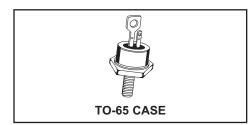


SILICON CONTROLLED RECTIFIERS 70 AMP, 200 THRU 1200 VOLT





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DESCRIPTION:

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

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)			CS65						
Poak Popotitive	Off-State Voltage	SYMBOL	<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 Repetitive Off-State Voltage		V _{DRM} , V _{RRM}	300	400 500	700	900	1100	1300	v
Peak Non-Repetitive Reverse Voltage		VRSM	300	500			1100	1300	
RMS On-State Current (T _C =102°C)		^I T(RMS)	63					A	
Average On-State Current (T _C =102°C)		^I T(AV)	40					Α	
Peak One Cycle Surge Current (60Hz)		ITSM	1000						А
I ² t Value for Fu	sing (t=8.3ms)	l ² t	4100						A ² s
Peak Forward Gate Voltage		V _{FGM}	20						V
Peak Reverse Gate Voltage		V _{RGM}	10						V
Peak Gate Power		PGM	10						W
Average Gate Power (tp=10µs)		P _{G(AV)}	1.0						W
Peak Forward Gate Current		IFGM		3.0					А
Critical Rate of Rise of On-State Current		di/dt	200					A/µs	
Operating Junction Temperature		ТЈ			-65 to	+125			°C
Storage Temperature		T _{stg}	-65 to +150					°C	
Thermal Resistance		ΘJC			0.3	35			°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)									
SYMBOL TEST CONDITIONS		20 0 011033 0110	MIN	lotou)	MA	X		UNITS	
IDRM ^{, I} RRM					6.			mA	
	$V_{p}=12V_{R}=330$	-			10	0		mΔ	

V_D=12V, R_L=33Ω IGT 100 mΑ I_T=500mA 200 mΑ ΙH V_D =12V, R_L=33 Ω 3.0 V V_{GT} V_{TM} I_{TM}=500A 3.0 V dv/dt V_D =0.67 x V_{DRM} , T_C =125°C 200 V/µs

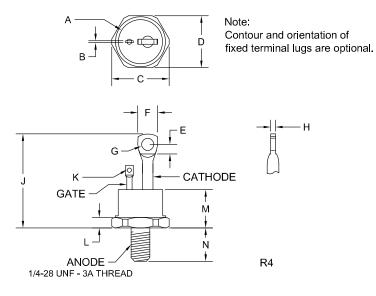
R5 (17-April 2018)



CS65-70B SERIES

SILICON CONTROLLED RECTIFIERS 70 AMP, 200 THRU 1200 VOLT

TO-65 CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INCHES		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	
TO-65 (REV: R4)					

R5 (17-April 2018)

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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 Field Representatives: www.centralsemi.com/wwreps

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: <u>www.centralsemi.com/terms</u>





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.



http://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01149
Notification Date:	5/01/20
Last Buy Date:	
Last Shipment Date	Stock Only

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

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.



Product End of Life Notification

PDN ID:	PDN01149
Notification Date:	5/01/20
Last Buy Date:	
Last Shipment Date	Stock Only

Summary: The CS65-70PB silicon controlled rectifier 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 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
CS65-70PB	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.