CQD-4M CQD-4N

SURFACE MOUNT SILICON TRIACS 4.0 AMP, 600 THRU 800 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CQD-4M and CQD-4N are epoxy molded silicon TRIACs designed for full wave AC control applications featuring gate triggering in all four quadrants.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T_C=25°C unless otherwise noted)

SYMBOL CQD-4M CQD-4N UNITS

SYMBOL	CQD-4M	CQD-4N	UNITS
V_{DRM}	600	800	V
I _T (RMS)	4	.0	Α
ITSM	4	0	Α
I ² t	2	.4	A^2s
P_{GM}	3	.0	W
P _G (AV)	0	.2	W
I _{GM}	1	.2	Α
T_J	-40 to	+125	°C
T _{stg}	-40 to	+150	°C
	VDRM IT(RMS) ITSM I ² t PGM PG(AV) IGM TJ	VDRM 600 IT(RMS) 4 ITSM 4 I ² t 2 PGM 3 PG(AV) 0 IGM 1 T _J -40 to	VDRM 600 800 IT(RMS) 4.0 ITSM 40 I ² t 2.4 PGM 3.0 PG(AV) 0.2 IGM 1.2 T _J -40 to +125

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

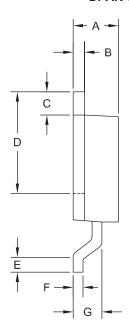
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IDRM	Rated V_{DRM} , R_{GK} =1 $K\Omega$			10	μΑ
I _{DRM}	Rated V_{DRM} , R_{GK} =1K Ω , T_{C} =125°C			200	μΑ
I_{GT}	V _D =12V, QUAD I, II, III		2.5	5.0	mA
I_{GT}	V _D =12V, QUAD IV		5.4	9.0	mA
lΗ	R _{GK} =1KΩ		1.6	5.0	mA
V_{GT}	V _D =12V, QUAD I, II, III, IV		0.95	1.75	V
V_{TM}	I _{TM} =6.0A, tp=380μs		1.25	1.75	V
dv/dt	V _D =2/ ₃ V _{DRM,} T _C =125°C	11			V/µs

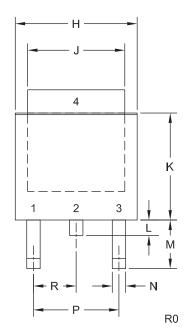
CQD-4M CQD-4N

SURFACE MOUNT SILICON **TRIACS** 4.0 AMP, 600 THRU 800 VOLT



DPAK CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) MT1
- 2) MT2
- 3) Gate 4) MT2

MARKING: FULL PART NUMBER

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	0.083	0.108	2.10	2.75
В	0.016	0.032	0.40	0.81
С	0.035	0.063	0.89	1.60
D	0.203	0.228	5.15	5.79
E	0.020	-	0.51	-
F	0.018	0.024	0.45	0.60
G	0.051	0.071	1.30	1.80
Н	0.248	0.268	6.30	6.81
J	0.197	0.217	5.00	5.50
K	0.209	0.245	5.30	6.22
L	0.025	0.040	0.64	1.02
М	0.090	0.115	2.30	2.91
N	0.012	0.045	0.30	1.14
Р	0.180		4.	60
R	0.090		2.	30
			DDAI/ /E	EL (DO)

DPAK (REV: R0)

R2 (21-January 2013)

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:	PDN01108
Notification Date:	3/21/19
Last Buy Date:	9/21/19
Last Shipment Date	3/21/20

Summary: All Thyristors manufactured in the DPAK and D2PAK packages 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
CQD-4M BK	N/A, Stock Only
CQD-4M TR13	N/A, Stock Only
CQDD-16M BK	N/A, Stock Only
CQDD-16M TR13	N/A, Stock Only
CQDD-25M BK	N/A, Stock Only
CQDD-25M TR13	N/A, Stock Only
CSDD-12N BK	N/A, Stock Only
CSDD-12N TR13	N/A, Stock Only
CSDD-16M BK	N/A, Stock Only
CSDD-16M TR13	N/A, Stock Only
CSDD-25M BK	N/A, Stock Only
CSDD-25M TR13	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