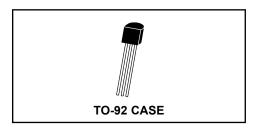
CQ92-2M CQ92-2N*

TRIAC 2.0 AMP, 600 THRU 800 VOLTS



Central[™] Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CQ92-2M and CQ92-2N are epoxy molded silicon Triacs designed for full wave AC control applications featuring gate triggering in all four (4) quadrants.

MARKING CODE: FULL PART NUMBER

 $\label{eq:maximum ratio} \textbf{MAXIMUM RATINGS:} \quad (\textbf{T}_{C} = 25^{\circ} \textbf{C} \text{ unless otherwise noted})$

	<u>SYMBOL</u>	CQ92-2M	CQ92-2N*	<u>UNITS</u>
Peak Repetitive Off-State Voltage	V_{DRM}	600	800	V
RMS On-State Current (T _C =50°C)	I _{T(RMS)}	2.	0	Α
Peak One Cycle Surge (t=10ms)	ITSM	20)	Α
I ² t Value for Fusing (t=10ms)	l ² t	2.	0	A^2s
Peak Gate Power (tp=10µs)	P_{GM}	3.	0	W
Average Gate Power Dissipation	P _G (AV)	0.	2	W
Peak Gate Current (tp=10µs)	I _{GM}	1.	2	Α
Peak Gate Voltage (tp=10µs)	V_{GM}	8.	0	V
Storage Temperature	T _{stg}	-40 to	+150	°C
Junction Temperature	TJ	-40 to	+125	°C
Thermal Resistance	$\Theta_{\sf JA}$	18	30	°C/W
Thermal Resistance	Θ JC	90		°C/W

$\textbf{ELECTRICAL CHARACTERISTICS:} \quad (\textbf{T}_{\hbox{C}} = 25^{\circ} \textbf{C} \text{ unless otherwise noted})$

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{DRM}	Rated V_{DRM} , R_{GK} =1 $K\Omega$			5.0	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		1.4	5.0	mA
I _{GT}	V _D =12V, QUAD IV		3.8	8.0	mA
lΗ	I_T =100mA, R_{GK} =1 $K\Omega$		1.2	5.0	mA
V_{GT}	V _D =12V, QUAD I, II, III, IV		1.1	1.8	V
V_{TM}	I _{TM} =2.0A, tp=380μs		1.50	1.75	V
V_{TM}	I _{TM} =3.0A, tp=380μs		1.7	2.0	V
dv/dt	V _D =2/ ₃ V _{DRM.} T _C =125°C	2.5			V/µs

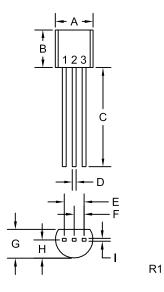
^{*} Available on request. Please consult factory.



CQ92-2M CQ92-2N*

TRIAC 2.0 AMP, 600 THRU 800 VOLTS

TO-92 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) MT1
- 2) GATE
- 3) MT2

MARKING CODE: FULL PART NUMBER

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
В	0.170	0.210	4.32	5.33
С	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
Е	0.100		2.54	
F	0.0)50	1.	27
G	0.125	0.165	3.18	4.19
Н	0.080	0.105	2.03	2.67
	0.015		0.	38

TO-92 (REV: R1)

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 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
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

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www.centralsemi.com (000)



Product End of Life Notification

PDN ID:	PDN01053
Notification Date:	8/24/16
Last Buy Date:	2/24/17
Last Shipment Date	8/24/17

Summary: The CQ92 series of TRIACS in the TO-92 case 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
CQ92-2M	N/A
CQ92-2N	N/A
CQ92B	N/A
CQ92BT	N/A
CQ92D	N/A
CQ92D APM	N/A
CQ92DT	N/A
CQ92M	N/A
CQ92MT	N/A
CQ92N	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