CQ202-4B CQ202-4D CQ202-4M CQ202-4N

4.0 AMP TRIAC 200 THRU 800 VOLTS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CQ202-4B series type is an epoxy molded silicon triac designed for full wave AC control applications featuring gate triggering in all four (4) quadrants.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T_C=25°C unless otherwise noted) CQ202 CQ202 CQ202 CQ202 SYMBOL UNITS <u>-4D</u> -4M <u>-4N</u> <u>-4B</u> Peak Repetitive Off-State Voltage v_{DRM} 200 400 600 800 RMS On-State Current (T_C=80°C) 4.0 I_T(RMS) Peak Non-Repetitive Surge Current (t=8.3ms) 40 ITSM Peak Non-Repetitive Surge Current (t=10ms) 35 Α ITSM I²t Value for Fusing (t=10ms) I^2t 6.0 A^2s Peak Gate Power (tp=10µs) P_{GM} 3.0 W Average Gate Power Dissipation 0.2 W P_G(AV) Peak Gate Current (tp=10µs) I_{GM} 1.2 Α Storage Temperature -40 to +150 °C T_{stg} °C Junction Temperature -40 to +125 TJ Thermal Resistance Θ_{JA} 60 °C/W Thermal Resistance 7.5 °C/W Θ JC

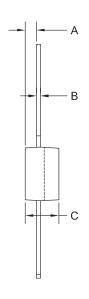
ELECTRICAL CHARACTERISTICS : (T _C =25°C unless otherwise noted)								
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS			
IDRM	Rated V _{DRM} , R _{GK} =1.0KΩ			10	μΑ			
I _{DRM}	Rated V_{DRM} , R_{GK} =1.0 $K\Omega$, T_{C} =125 $^{\circ}C$			200	μΑ			
l _{GT}	V _D =12V, QUAD I, II, III		6.6	20	mA			
l _{GT}	V _D =12V, QUAD IV		35	50	mA			
lΗ	R_{GK} =1.0K Ω		5.2	25	mA			
V_{GT}	V _D =12V, QUAD I, II, III		1.1	1.5	V			
V_{GT}	V _D =12V, QUAD IV		2.0	2.5	V			
V_{TM}	I _{TM} =6.0A, tp=380μs		1.25	1.6	V			
dv/dt	$V_{D}^{=2/3} V_{DRM}, T_{C}^{=125}^{\circ}C$	5.0			V/µs			

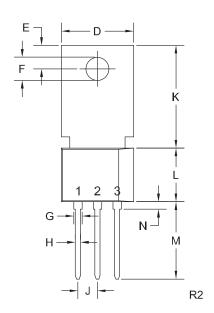
CQ202-4B CQ202-4D CQ202-4M CQ202-4N

4.0 AMP TRIAC **200 THRU 800 VOLTS**



TO-202 CASE - MECHANICAL OUTLINE





LEAD CODE:

1) MT1

2) MT2 3) Gate

Tab is common to pin 2

MARKING:

FULL PART NUMBER

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.055	0.071	1.40	1.80			
В	0.016	0.024	0.40	0.60			
С	0.173	0.181	4.40	4.60			
D	0.374	0.413	9.50	10.5			
Е	0.118	0.154	3.00	3.90			
F (DIA)	0.124	0.150	3.15	3.80			
G	0.035	0.055	0.90	1.40			
Н	0.023	0.031	0.59	0.80			
J	0.094	0.106	2.39	2.69			
K	0.459	0.559	11.66	14.21			
L	0.280	0.346	7.12	8.80			
M	0.406	0.531	10.3	13.5			
N	0.024	0.059	0.60	1.50			
		Т	O-202 (F	REV: R2)			

R6 (23-January 2012)

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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Summary: The CQ202 series of TRIACS in the TO-202 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
CQ202-4B	N/A
CQ202-4B-2	N/A
CQ202-4BS	N/A
CQ202-4BS-LF02	N/A
CQ202-4BS-2	N/A
CQ202-4D	N/A
CQ202-4D-2	N/A
CQ202-4DS	N/A
CQ202-4DS-2	N/A
CQ202-4M	N/A
CQ202-4M-2	N/A
CQ202-4MS	N/A
CQ202-4MS-2	N/A
CQ202-4N	N/A
CQ202-4N-2	N/A
CQ202-4NS	N/A
CQ202-4NS-2	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.