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

4.0 AMP TRIAC 200 THRU 800 VOLTS



TO-202 CASE



www.centralsemi.com

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

MAXIMOM IXATINGO. (1) =20 0 dilicos offici misc floted	MAXIMUM RATINGS:	(T _C =25°C unless	otherwise noted
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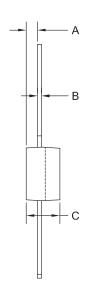
MAXIMUM RATINGS: (T _C =25°C unless otherwise noted)								
			SYMBOL	CQ202 -4B	CQ202 -4D	CQ202 -4M	CQ202 -4N	UNITS
	Peak Repetitiv	e Off-State Voltage	V _{DRM}	200	400	600	800	V
	RMS On-State	Current (T _C =80°C)	I _T (RMS)		4	.0		Α
	Peak Non-Rep	petitive Surge Current (t=8.3ms)			4	.0		Α
	Peak Non-Rep	petitive Surge Current (t=10ms)			3	5		Α
	I ² t Value for Fi	using (t=10ms)	I ² t		6	.0		A^2s
	Peak Gate Por	wer (tp=10µs)	P_{GM}		3	.0		W
	Average Gate	Power Dissipation	P _G (AV)		0	.2		W
	Peak Gate Cu	rrent (tp=10µs)	I _{GM}		1	.2		Α
	Storage Temp	erature	T _{stg}		-40 to	o +150		°C
	Junction Temp	perature	TJ		-40 to	+125		°C
	Thermal Resis	tance	$\Theta_{\sf JA}$		6	60		°C/W
	Thermal Resis	tance	$\Theta_{\sf JC}$		7	.5		°C/W
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)								
	SYMBOL	TEST CONDITIONS		MIN		ΥP	MAX	UNITS
	IDRM	Rated V _{DRM} , R _{GK} =1.0KΩ					10	μΑ
	I _{DRM}	Rated V_{DRM} , R_{GK} =1.0K Ω , T_{C}	C=125°C				200	μΑ
	lgT	V _D =12V, QUAD I, II, III			6	6.6	20	mA
	l _{GT}	V _D =12V, QUAD IV			3	35	50	mA
	IH	R_{GK} =1.0 $K\Omega$			5	5.2	25	mA
	V_{GT}	V _D =12V, QUAD I, II, III			1	1.1	1.5	V
	V_{GT}	V _D =12V, QUAD IV			2	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

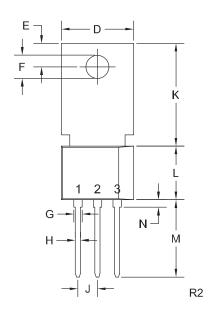
CQ202-4B CQ202-4D CQ202-4M CQ202-4N

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
E	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
М	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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Product End of Life Notification

PDN ID:	PDN01055
Notification Date:	8/24/16
Last Buy Date:	2/24/17
Last Shipment Date	8/24/17

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.

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