

4.0 AMP SCR 200 THRU 800 VOLTS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CS202-4B-2 series type is an epoxy molded silicon controlled rectifier designed for sensing circuit applications and control systems.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C unless otherwise noted)						
-	SYMBOL	CS202 -4B-2	CS202 -4D-2	CS202 -4M-2	CS202 -4N-2	UNITS
Peak Repetitive Off-State Voltage	VDRM, VRRM	200	400	600	800	V
RMS On-State Current (T _C =85°C)	IT(RMS)		4	.0		А
Peak One Cycle Surge (t=10ms)	ITSM		3	0		А
l ² t Value for Fusing (t=10ms)	l ² t		4	.5		A ² s
Peak Gate Power (tp=20µs)	PGM		3	.0		W
Average Gate Power Dissipation	P _{G(AV)}		0	.2		W
Peak Gate Current (tp=20µs)	I _{GM}		1	.2		А
Critical Rate of Rise of On-State Current	di/dt		5	0		A/µs
Storage Temperature	T _{stg}		-40 to	o +150		°C
Junction Temperature	тj		-40 to	o +125		°C
Thermal Resistance	ΘJA		8	0		°C/W
Thermal Resistance	ΘJC		7	.5		°C/W
	-25°C uploss oth	onvice no	atad)			
ELECTRICAL CHARACTERISTICS: (T _C SYMBOL TEST CONDITIONS	-25 C unless ou	MIN		YP	MAX	UNITS
IDRM, IRRM Rated VDRM, VRRM, RG	K=1.0KΩ				10	μA
I _{DRM} , I _{RRM} Rated V _{DRM} , V _{RRM} , R _{GK} =1.0KΩ, T _C =125°C		5°C			200	μΑ
I_{GT} $V_D=12V, R_L=10\Omega$		20		38	200	μΑ
I _H I _T =50mA, R _{GK} =1.0KΩ			0	.25	2.0	mA
V_{GT} V_{D} =12V, R _L =10 Ω			0	.55	0.8	V
V _{TM} I _{TM} =8.0A, tp=380µs			1	.6	1.8	V
dv/dt $V_D = \frac{2}{3} V_{DRM}, R_{GK} = 1.0 K\Omega, T_C = 125^{\circ}C$				10		V/µs

R2 (23-April 2012)



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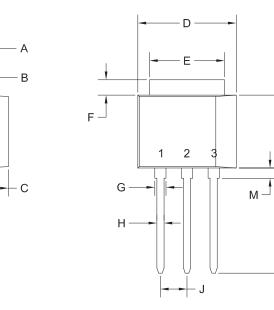
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R2

CS202-4B-2 CS202-4D-2 CS202-4M-2 CS202-4N-2

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TO-202-2 CASE - MECHANICAL OUTLINE



	DIMENSIONS				
LEAD CODE:		INCHES		MILLIMETERS	
	SYMBOL	MIN	MAX	MIN	MAX
1) Cathode	A	0.055	0.071	1.40	1.80
2) Anode	В	0.016	0.024	0.40	0.60
3) Gate	С	0.173	0.181	4.40	4.60
Tab is common to pin 2	D	0.374	0.413	9.50	10.5
	E	0.236	0.355	6.00	9.00
MARKING:	F	-	0.071	-	1.80
FULL PART NUMBER	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	0.280	0.346	7.12	8.80
	L	0.406	0.531	10.3	13.5
	М	0.024	0.059	0.60	1.50

0.60 1.50 TO-202-2 (REV: R2)

R2 (23-April 2012)

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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

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- 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

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Product End of Life Notification

PDN ID:	PDN01052
Notification Date:	8/24/16
Last Buy Date:	2/24/17
Last Shipment Date	8/24/17

Summary: The CS202 series of Silicon Controlled Rectifiers 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
CS202-4B	N/Ā
CS202-4B-2	N/A
CS202-4D	N/A
CS202-4D-2	N/A
CS202-4M	N/A
CS202-4M-2	N/A
CS202-4N	N/A
CS202-4N-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.