CS220-10B CS220-10D CS220-10M CS220-10N

SILICON CONTROLLED RECTIFIERS 10 AMP, 200 THRU 800 VOLT

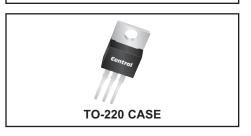


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CS220-10B series types are epoxy molded SCRs designed for sensing circuit and control system applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _C =25°C unless otherwise note							
Peak Renetiti	ve Off-State Voltage	SYMBOL V _{DRM} , V _{RRM}	<u>-10B</u> 200	<u>-10D</u> 400	<u>-10M</u> 600	<u>-10N</u> 800	UNITS V
RMS On-State Current (T _C =90°C)		I _T (RMS)			0		A
Peak One Cycle Surge Current, t=10ms		ITSM	100			Α	
I ² t Value for Fusing, t=10ms		I ² t	50			A ² s	
Peak Gate Power Dissipation, tp=10µs		P_{GM}		40			W
Average Gate Power Dissipation		P _{G(AV)}		1.0			W
Peak Forward Gate Current, tp=10µs		I _{FGM}		4.0			Α
Peak Forward Gate Voltage, tp=10µs		V _{FGM}		16			V
Peak Reverse Gate Voltage, tp=10µs		V _{RGM}		5.0			V
Critical Rate of Rise of On-State Current		di/dt	50			A/µs	
Operating Junction Temperature		T_J	-40 to +125			°C	
Storage Temperature		T _{stg}		-40 to	+150		°C
Thermal Resistance		ΘЈА		6	0		°C/W
Thermal Resistance		ΘJC		2.	.5		°C/W
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS	MIN	se noteu)		ΑX		UNITS
I _{DRM} , I _{RRM}	Rated V _{DRM} , V _{RRM}			1	0		μΑ
I _{DRM} , I _{RRM} Rated V _{DRM} , V _{RRM} , T _C =125		5°C		2.	.0		mA
I _{GT}	$V_D=12V$, $R_L=33\Omega$			1	5		mA
lΗ	I _T =100mA			3	0		mA
V_{GT}	V_D =12V, R_L =33 Ω			1.	.5		V
V_{TM}	I _{TM} =20A, tp=10ms			1.	.6		V
dv/dt	V _D = ² / ₃ Rated V _{DRM} , T _C =125°	°C 200					V/µs

CS220-10B CS220-10D CS220-10M

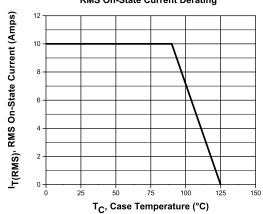
SILICON CONTROLLED RECTIFIERS 10 AMP, 200 THRU 800 VOLT

CS220-10N

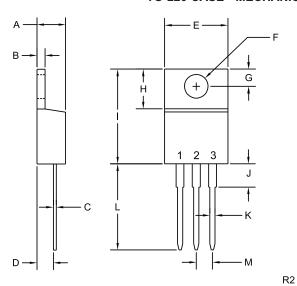


TYPICAL ELECTRICAL CHARACTERISTICS

RMS On-State Current Derating



TO-220 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.170	0.190	4.31	4.82			
В	0.045	0.055	1.15	1.39			
С	0.013	0.026	0.33	0.65			
D	0.083	0.107	2.10	2.72			
Е	0.394	0.417	10.01	10.60			
F (DIA)	0.140	0.157	3.55	4.00			
G	0.100	0.118	2.54	3.00			
Н	0.230	0.270	5.85	6.85			
	0.560	0.625	14.23	15.87			
J	-	0.250	-	6.35			
K	0.025	0.038	0.64	0.96			
L	0.500	0.579	12.70	14.70			
М	0.090	0.110	2.29	2.79			

TO-220 (REV: R2)

- LEAD CODE:
- 1) Cathode
- 2) Anode
- 3) Gate Tab is common to pin 2

MARKING: FULL PART NUMBER

R1 (24-October 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 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

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

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Summary: The CS220 series of Silicon Controlled Rectifiers in the TO-220 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
CS220-10B	N/A
CS220-10D	N/A
CS220-10M	N/A
CS220-10N	N/A
CS220-12B	N/A
CS220-12D	N/A
CS220-12M	N/A
CS220-12N	N/A
CS220-12P	N/A
CS220-16B	N/A
CS220-16D	N/A
CS220-16M	N/A
CS220-16N	N/A
CS220-16P	N/A
CS220-25B	N/A
CS220-25D	N/A
CS220-25M	N/A
CS220-25N	N/A
CS220-25P	N/A
CS220-25PB	N/A
CS220-35M	N/A
CS220-35N	N/A
CS220-8B	N/A
CS220-8D	N/A
CS220-8F	N/A
CS220-8M	N/A
CS220-8N	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.