CS220-16B CS220-16D CS220-16M CS220-16N

SILICON CONTROLLED RECTIFIERS 16 AMP, 200 THRU 800 VOLT

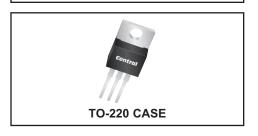


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CS220-16B series types are epoxy molded SCRs designed for sensing circuit and control system applications.

MARKING: FULL PART NUMBER



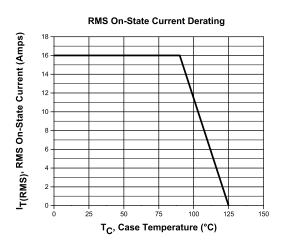
MAXIMUM RATINGS: (T _C =25°C unless otherwise noted)			CS220				
Peak Repetitive Off-State Voltage		SYMBOL V _{DRM} , V _{RRM}	<u>-16B</u> 200	<u>-16D</u> 400	<u>-16M</u> 600	<u>-16N</u> 800	UNITS V
RMS On-State Current (T _C =90°C)		I _T (RMS)	16				Α
Peak One Cycle Surge Current, t=10ms		ITSM	160				Α
I ² t Value for Fusing, t=10ms		I ² t		128			A^2s
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	100				A/µs
Operating Junction Temperature		T_J	-40 to +125			°C	
Storage Temperature		T _{stg}		-40 to +150			°C
Thermal Resistance		$\Theta_{\sf JA}$	60			°C/W	
Thermal Resistance		Θ JC	2.5			°C/W	
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS	MIN		ΥP	MAX	(UNITS
IDRM, IRRM	Rated V _{DRM} , V _{RRM}				10		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 =10 Ω		;	3.4	15		mA
lΗ	I _T =100mA		8	3.8	20		mA
V_{GT}	V_D =12V, R_L =10 Ω		0	.64	1.5		V
V_{TM}	I _{TM} =32A, tp=380μs			1.4	1.6		V
dv/dt	$V_D=\frac{2}{3}Rated V_{DRM}, T_C=125^{\circ}$	°C 500					V/µs

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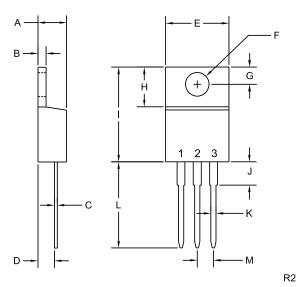
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TYPICAL ELECTRICAL CHARACTERISTICS



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		
Ĺ	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

R3 (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

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Product End of Life Notification

PDN ID:	PDN01051
Notification Date:	8/24/16
Last Buy Date:	2/24/17
Last Shipment Date	8/24/17

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.

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