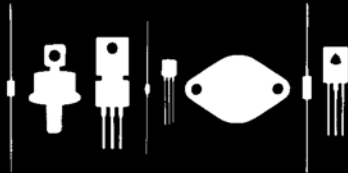


Central
Semiconductor Corp.

**Central
Semiconductor Corp.**
**Central™
Semiconductor Corp.**

145 Adams Avenue
Hauppauge, New York 11788



CS3P-40B
CS3P-40D
CS3P-40M
CS3P-40N
CS3P-40P
CS3P-40PB

ISOLATED 40 AMP SCR
200 THRU 1200 VOLTS

TO-3P CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CS3P-40B series types are Epoxy Molded Silicon Controlled Rectifiers mounted on an isolated TO-3 metal platform, designed for sensing circuit applications and control systems .

MAXIMUM RATINGS (T_C = 25°C unless otherwise noted)

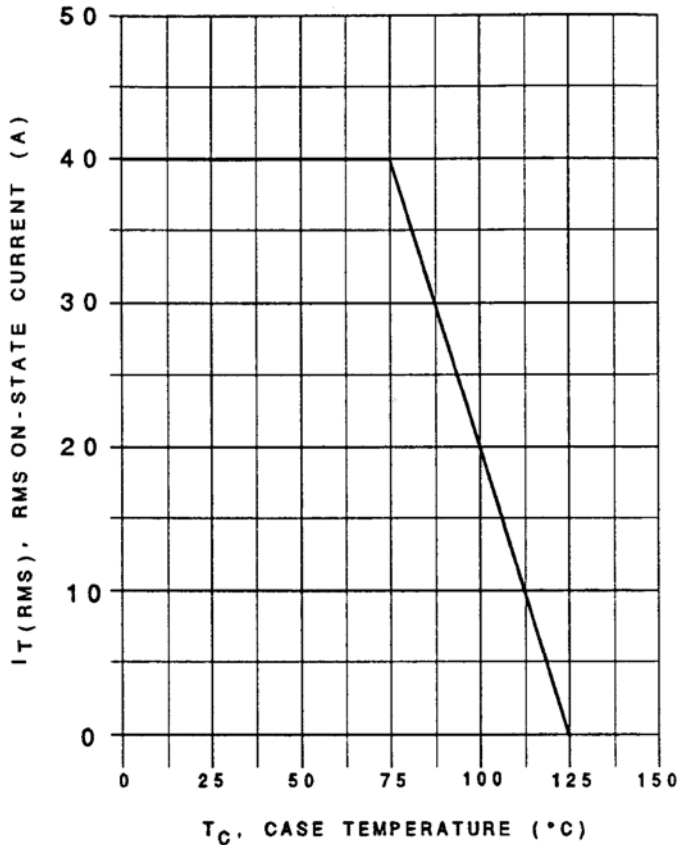
	SYMBOL	CS3P -40B	CS3P -40D	CS3P -40M	CS3P -40N	CS3P -40P	CS3P -40PB	UNITS
Peak Repetitive Off-State Voltage	V _{DRM} , V _{RRM}	200	400	600	800	1000	1200	V
RMS On-State Current (T _C = 75°C)	I _{T(RMS)}				40			A
Peak One Cycle Surge (t = 10ms)	I _{TSM}				500			A
I ² t Value for Fusing (t = 10ms)	I ² t				1250			A ² s
Peak Gate Power (tp = 10µs)	P _{GM}				50			W
Average Gate Power Dissipation	P _{G(AV)}				1.0			W
Peak Forward Gate Current (tp = 10µs)	I _{FGM}				4.0			A
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
Storage Temperature	T _{stg}				-40 to +150			°C
Junction Temperature	T _J				-40 to +125			°C
Thermal Resistance	θ _{J-C}				1.0			°C/W
Isolation Voltage	V _{ISO}				2500			V _(RMS)

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

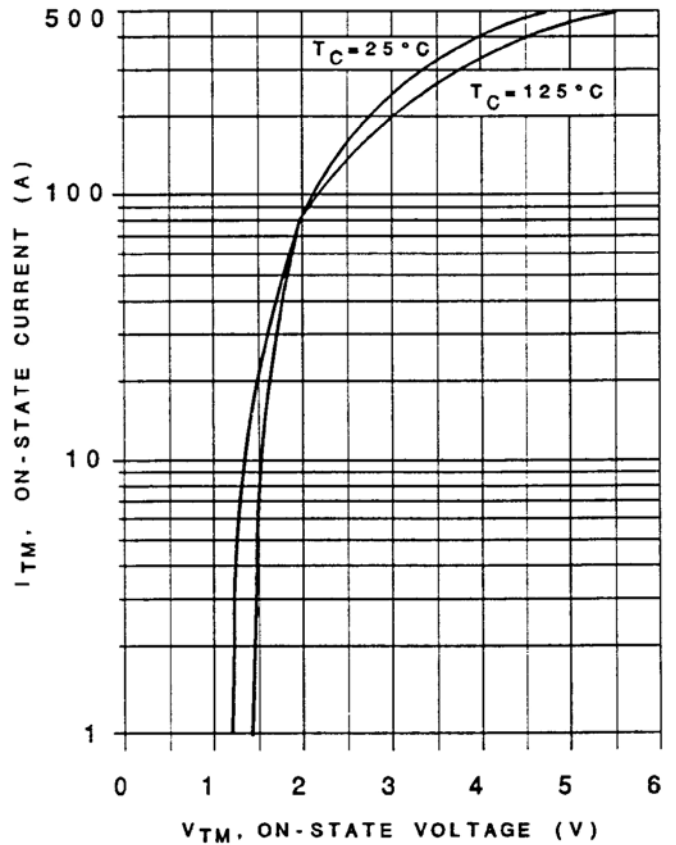
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{DRM} , I _{RRM}	Rated V _{DRM} , V _{RRM}			0.02	mA
I _{DRM} , I _{RRM}	Rated V _{DRM} , V _{RRM} , T _C = 125°C			6.00	mA
I _{GT}	V _D = 12V, R _L = 33Ω			80	mA
I _H	I _T = 500mA			150	mA
V _{GT}	V _D = 12V, R _L = 33Ω			1.50	V
V _{TM}	I _{TM} = 80A, tp = 10ms			2.00	V
dv/dt	V _D = .67 x V _{DRM} , T _C = 125°C, V _{DRM} ≤ 800V	500			V/µs
dv/dt	V _D = .67 x V _{DRM} , T _C = 125°C, V _{DRM} ≥ 1000V	250			V/µs

CS3P-40B SERIES RATING AND CHARACTERISTIC CURVES

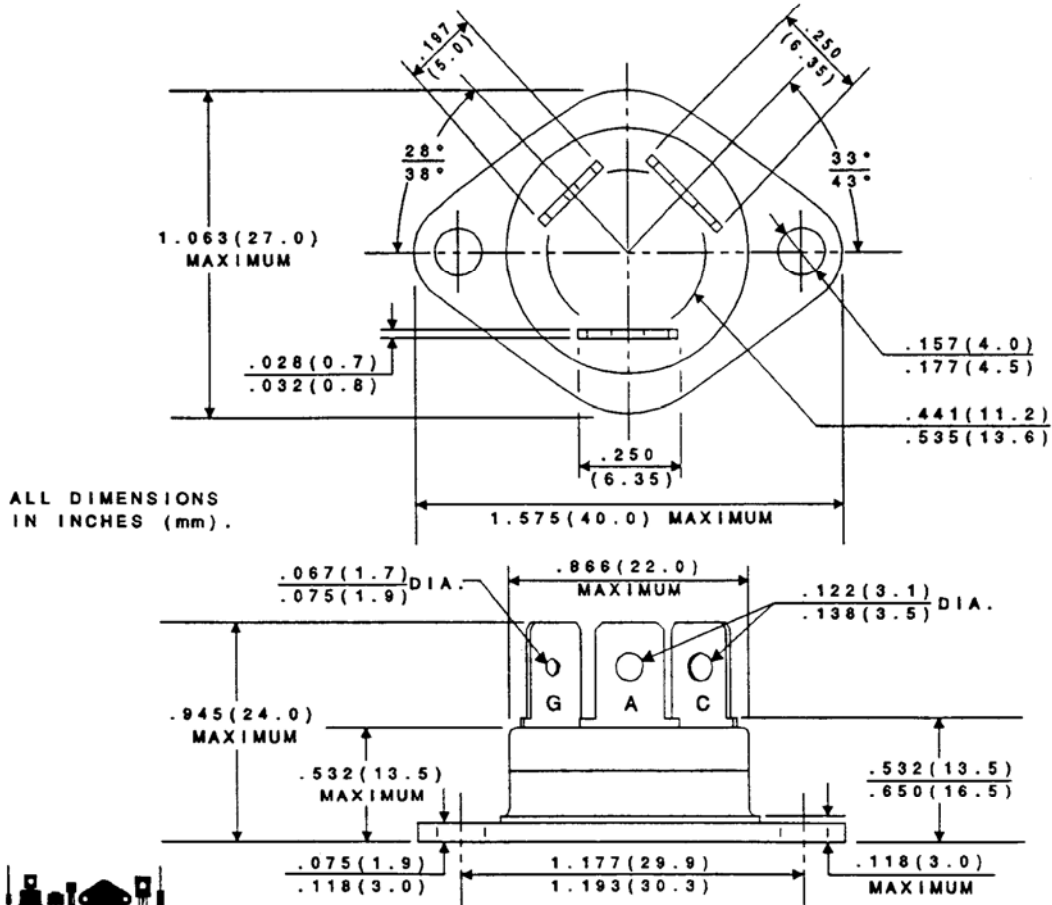
RMS ON-STATE CURRENT vs. CASE TEMPERATURE



MAXIMUM ON-STATE CHARACTERISTICS



MECHANICAL OUTLINE



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

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).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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
www.centalsemi.com

Worldwide Field Representatives:
www.centalsemi.com/wwreps

Worldwide Distributors:
www.centalsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centalsemi.com/terms



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01116
Notification Date:	2/21/19
Last Buy Date:	Stock Only
Last Shipment Date	Stock Only

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

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.

Product End of Life Notification

PDN ID:	PDN01116
Notification Date:	2/21/19
Last Buy Date:	Stock Only
Last Shipment Date	Stock Only

Summary: All TRIAC and SCR devices in the TO-3P package are 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 other 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 ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

<u>Central Part Number</u>	<u>Replacement</u>
CQ3P-25B	N/A, Stock Only
CQ3P-25D	N/A, Stock Only
CQ3P-25M	N/A, Stock Only
CQ3P-25N	N/A, Stock Only
CQ3P-40B	N/A, Stock Only
CQ3P-40D	N/A, Stock Only
CQ3P-40M	N/A, Stock Only
CQ3P-40N	N/A, Stock Only
CS3P-40B	N/A, Stock Only
CS3P-40D	N/A, Stock Only
CS3P-40M	N/A, Stock Only
CS3P-40N	N/A, Stock Only
CS3P-40P	N/A, Stock Only
CS3P-40PB	N/A, Stock Only

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.