



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CS48-35B
CS48-35D
CS48-35M
CS48-35N
CS48-35P
CS48-35PB

**SILICON CONTROLLED RECTIFIER
35 AMP, 200 THRU 1200 VOLTS**

JEDEC TO-48 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CS48-35B series types are High Power Silicon Controlled Rectifiers designed for phase control applications.

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

	SYMBOL	CS48 -35B	CS48 -35D	CS48 -35M	CS48 -35N	CS48 -35P	CS48 -35PB	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)}				35			A
Peak One Cycle Surge (t = 10ms)	I _{TSM}				330			A
I ² t Value for Fusing (t = 10ms)	I ² t				545			A ² s
Peak Gate Power (tp = 10μs)	P _{GM}				60			W
Average Gate Power Dissipation	P _{G(AV)}				1.0			W
Peak Forward Gate Current (tp = 10μs)	I _{FGM}				10			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

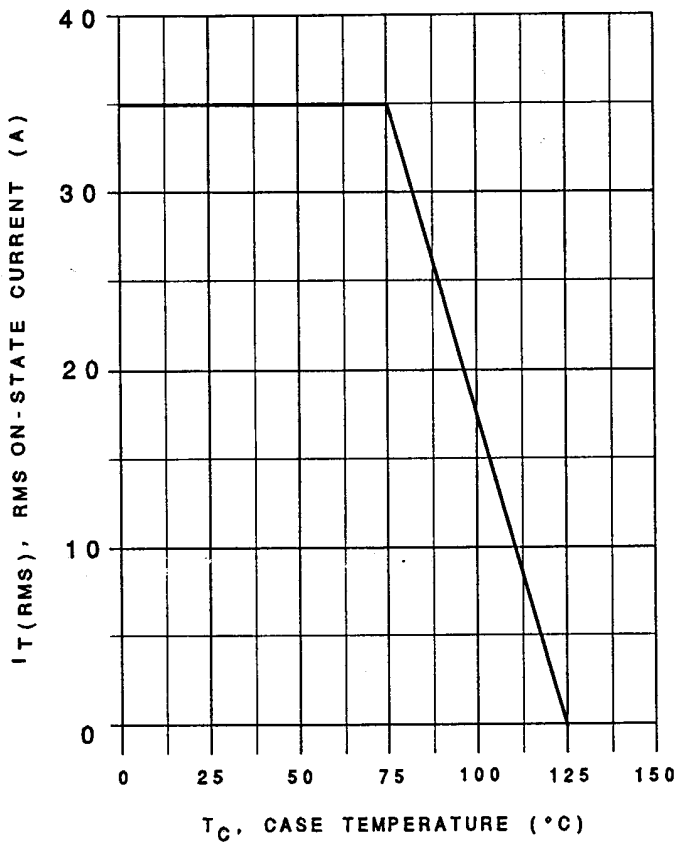
ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

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			3.30	mA
I _{GT}	V _D = 12V, R _L = 33Ω			40	mA
I _H	I _T = 500mA			100	mA
V _{GT}	V _D = 12V, R _L = 33Ω			1.50	V
V _{TM}	I _{TM} = 70A, tp = 10ms			2.30	V
dv/dt	V _D = .67 x V _{DRM} , T _C = 125°C	200			V/μs

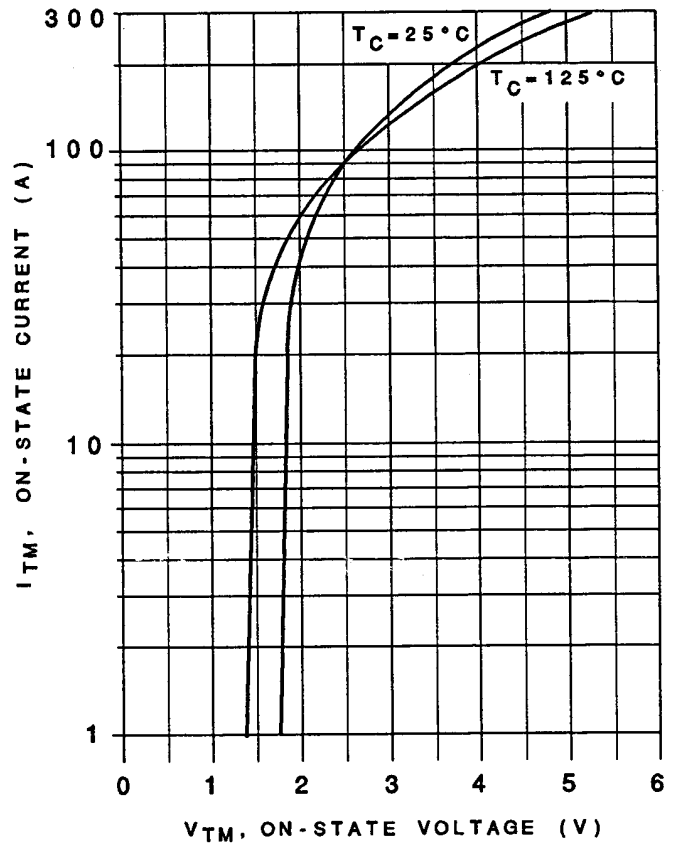
(OVER)

CS48-35B SERIES RATING AND CHARACTERISTIC CURVES

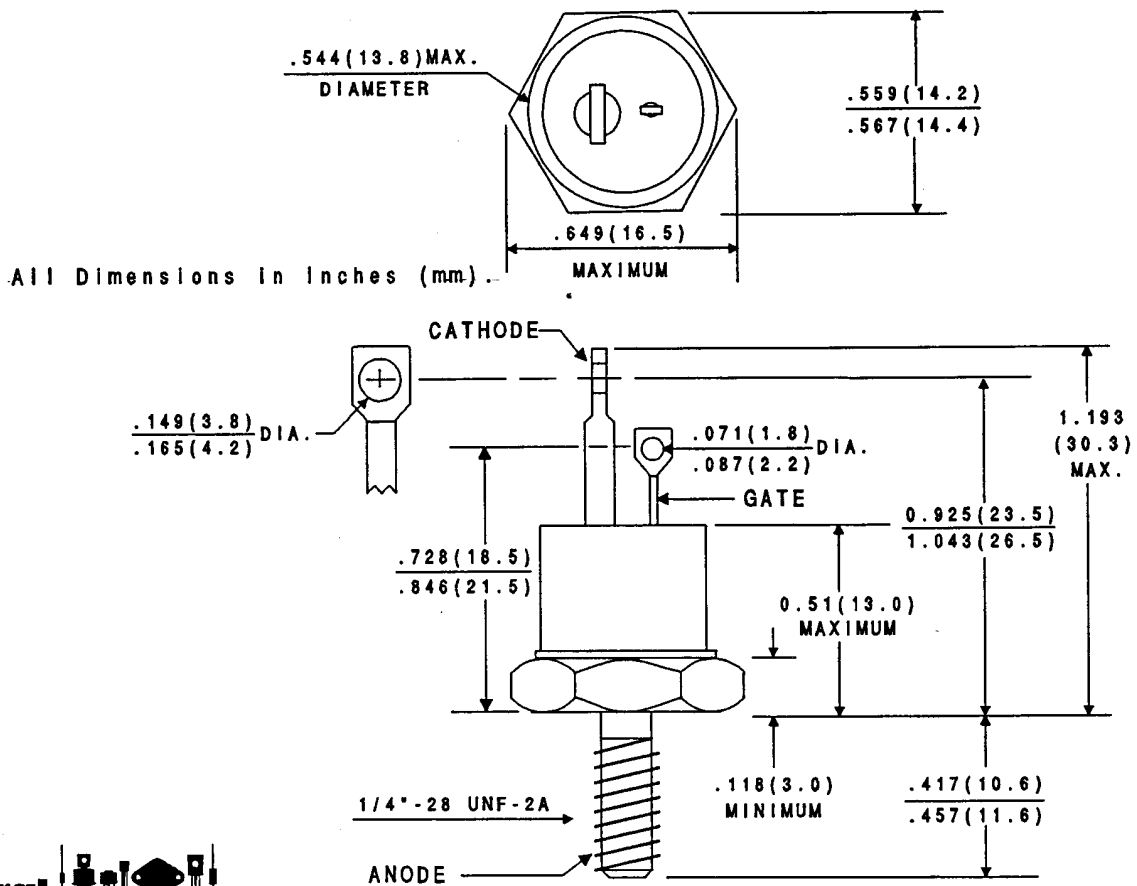
RMS ON-STATE CURRENT vs. CASE TEMPERATURE



MAXIMUM ON-STATE CHARACTERISTICS



MECHANICAL DIMENSIONS



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

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