

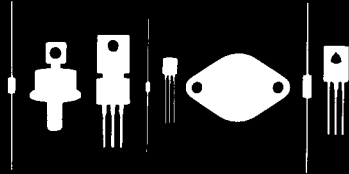
Address of  
Manufacturing Plant

Central  
Semiconductor Corp.

Central  
Semiconductor Corp.

Central™  
Semiconductor Corp.

145 Adams Avenue  
Hauppauge, New York 11788



CR40F SERIES

40 AMP FAST RECOVERY RECTIFIER  
100 THRU 1000 VOLTS

JEDEC DO-5 CASE

FEATURES

- 40 Amps at 150°C
- Hermetic Seal
- Stud Mounting
- 400 Amps Surge Current
- Reliable Internal Construction
- Extensive Temperature Range

DESCRIPTION

The CENTRAL SEMICONDUCTOR 40 ampere stud mounted fast recovery silicon rectifier is a high quality, well constructed, highly reliable component designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications. Because of its superior electrical characteristics, this rectifier family is used as a universal replacement for many other rectifiers.

MAXIMUM RATINGS (T<sub>C</sub>=25°C unless otherwise noted)

	SYMBOL	CR40F -010	CR40F -020	CR40F -040	CR40F -060	CR40F -080	CR40F -100	UNIT
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	140	280	420	560	700	V
Average Forward Current (T <sub>C</sub> =150°C)	I <sub>O</sub>				40			A
Peak Forward Surge Current	I <sub>FSM</sub>				400			A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>STG</sub>			-65 TO +200				°C

ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
V <sub>F</sub>	I <sub>F</sub> =40A		1.4	V
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>		25	μA
I <sub>R</sub>	V <sub>R</sub> =RATED V <sub>RRM</sub> , T <sub>C</sub> =100°C		5.0	mA
t <sub>rr</sub>	I <sub>F</sub> =1.0A to V <sub>R</sub> =30V (100V thru 600V)		200	ns
t <sub>rr</sub>	I <sub>F</sub> =1.0A to V <sub>R</sub> =30V (800V thru 1000V)		300	ns

Normal Polarity: cathode to stud (case)  
For Reverse Polarity: add "R" to suffix. EX: CR40F-040R

145 Adams Avenue, Hauppauge, NY 11788 USA  
Tel: (631) 435-1110 • Fax: (631) 435-1824