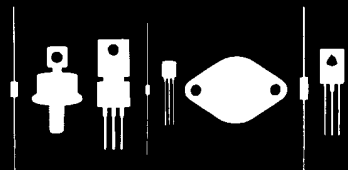


Central  
Semiconductor Corp.  
Central  
Semiconductor Corp.  
Central  
Semiconductor Corp.  
**Central™  
Semiconductor Corp.**

145 Adams Avenue  
Hauppauge, New York 11788



## CR6AF SERIES

6.0 AMP RECTIFIER  
FAST RECOVERY  
100 THRU 1000 VOLTS  
CASE 106

### FEATURES

- 6 Amps at  $T_A=60^\circ\text{C}$ , 3/8" lead length
- Compression molded epoxy
- Superior solvent resistance
- 300 Amps surge current
- Reliable internal construction
- Extensive temperature range

### DESCRIPTION

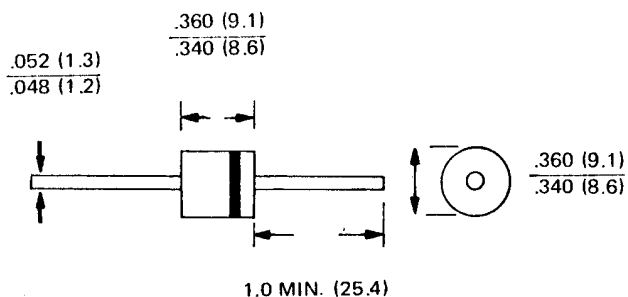
The CENTRAL SEMICONDUCTOR 6 ampere axial lead fast recovery epoxy silicon rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. Because of its superior electrical characteristics, this rectifier family is used as a universal replacement for many other rectifiers.

### MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	CR6AF1	CR6AF2	CR6AF4	CR6AF6	CR6AF8	CR6AF10	UNIT
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_R(RMS)$	70	140	280	420	560	700	A
Average Forward Current	$I_O$				6.0			A
Peak Forward Surge Current	$I_{FSM}$				300			A
Operating and Storage Junction Temperature	$T_J, T_{STG}$			-65 TO +175				$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
$V_F$	$I_F=\text{Rated } I_O$		1.2	V
$I_R$	$V_R=\text{Rated } V_{RRM}$		25	$\mu\text{A}$
$t_{rr}$	$I_F=0.5\text{A}, I_R=1.0\text{A}, \text{Recovery to } 0.25\text{A (100-400V)}$		200	ns
$t_{rr}$	$I_F=0.5\text{A}, I_R=1.0\text{A}, \text{Recovery to } 0.25\text{A (600-1000V)}$		500	ns



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