

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

**CR5F SERIES**5.0 AMP  
FAST RECOVERY RECTIFIER

AXIAL LEAD EPOXY CASE (CASE 103)

DESCRIPTION

The CENTRAL SEMICONDUCTOR CR5F Series types are Axial Lead Silicon Rectifiers designed for DC Power Supply and Inverter applications where fast recovery times are needed.

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

	CR5F-005	CR5F-010	CR5F-020	CR5F-040	CR5F-060	CR5F-080	CR5F-100	CR5F-120	UNIT
$V_{RRM}$	50	100	200	400	600	800	1000	1200	V
$V_R(\text{RMS})$	35	70	140	280	420	560	700	840	V
$I_O$ ( $T_A=80^{\circ}\text{C}$ )				5.0					A
$I_{FSM}$ (8.0ms Duration)				200					A
$T_J, T_{stg}$				-65 TO +175					$^{\circ}\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
$I_R$	$V_R=V_{RRM}$		5.0	$\mu\text{A}$
$V_F$	$I_F=5.0\text{A}$		1.2	V
$t_{rr}$	$I_F=1.0\text{A}, V_R=30\text{V}, (50\text{V THRU } 600\text{V})$		150	ns
$t_{rr}$	$I_F=1.0\text{A}, V_R=30\text{V}, (800\text{V THRU } 1200\text{V})$		400	ns