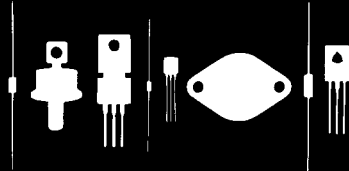


Central  
Semiconductor Corp.

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145 Adams Avenue  
Hauppauge, New York 11788



CR1F SERIES  
FAST RECOVERY RECTIFIER  
JEDEC D0-41 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CR1F 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)

	CR1F-005	CR1F-010	CR1F-020	CR1F-040	CR1F-060	CR1F-080	CR1F-100	CR1F-120	UNIT
$V_{RRM}$	50	100	200	400	600	800	1000	1200	V
$V_R(RMS)$	35	70	140	280	420	560	700	840	V
$I_O$ ( $T_A=80^\circ\text{C}$ )				1.5					A
$I_{FSM}$ (8.0ms Duration)				50					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	$\mu\text{A}$
$I_R$	$V_R=V_{RRM}, T_A=100^\circ\text{C}$		100	$\mu\text{A}$
$V_F$	$I_F=1.0\text{A}$		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
$t_{rr}$	$I_F=1.0\text{A}, V_R=30\text{V}, (800\text{V thru } 1200\text{V})$		500	ns

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