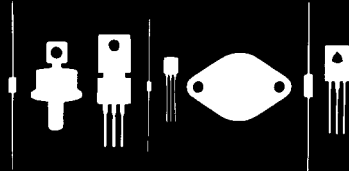


Central  
Semiconductor Corp.

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

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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## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> 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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### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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