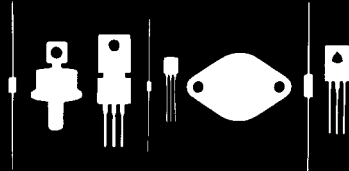


Central
Semiconductor Corp.

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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	μA
I_R	$V_R=V_{RRM}, T_A=100^\circ\text{C}$		100	μA
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



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

DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2nd 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

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).

CONTACT US

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