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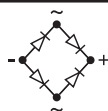
[CBR1F-020](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

**CBR1F SERIES
CBR2F SERIES**

**FAST RECOVERY
SILICON BRIDGE RECTIFIERS**



CASE A



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBR1F and CBR2F series types are silicon, single phase, full wave bridge rectifiers designed for fast switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=50°C)

	SYMBOL	CBR1F CBR2F	CBR1F CBR2F	CBR1F CBR2F	CBR1F CBR2F	CBR1F CBR2F	CBR1F CBR2F	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	-010 100	-020 200	-040 400	-060 600	-080 800	-100 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	V
Average Forward Current (CBR1F)	I _O				1.5			A
Average Forward Current (CBR2F)	I _O				2.0			A
Peak Forward Surge Current (CBR1F)	I _{FSM}				50			A
Peak Forward Surge Current (CBR2F)	I _{FSM}				60			A
Operating and Storage Junction Temperature	T _J , T _{stg}				-65 to +150			°C

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

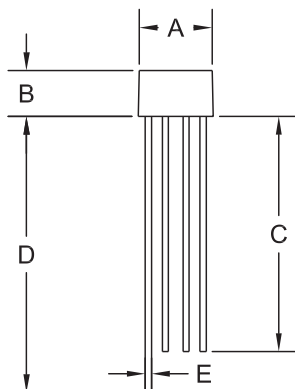
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =Rated V _{RRM}		10	μA
I _R	V _R =Rated V _{RRM} , T _A =100°C		1.0	mA
V _F (CBR1F)	I _F =1.0A		1.3	V
V _F (CBR2F)	I _F =2.0A		1.3	V
t _{rr} (100V, 200V, 400V)	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		200	ns
t _{rr} (600V, 800V)	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		350	ns
t _{rr} (1000V)	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		500	ns

**CBR1F SERIES
CBR2F SERIES**

**FAST RECOVERY
SILICON BRIDGE RECTIFIERS**



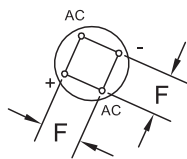
CASE A - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.299	0.370	7.6	9.4
B	0.197	0.220	5.0	5.6
C	1.00	-	25.4	-
D	1.10	-	27.9	-
E	0.028	0.032	0.70	0.81
F	0.181	0.220	4.6	5.6

CASE A (REV:R1)

**MARKING:
FULL PART NUMBER**



R1

R1 (18-June 2013)

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

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