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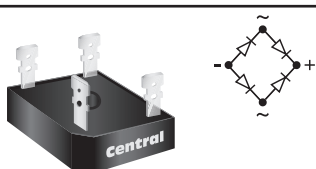
[Central Semiconductor Corp](#)
[CBR25-020P](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

CBR25-010P SERIES

**SILICON BRIDGE RECTIFIERS
25 AMP, 100 THRU 1000 VOLT**



CASE FP



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBR25-010P series devices are silicon, single phase, full wave bridge rectifiers designed for general purpose applications. The molded epoxy case has a built-in metal baseplate for heat sink mounting. The device utilizes standard 0.25" FASTON terminals.

MARKING: FULL PART NUMBER

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

	SYMBOL	CBR25						UNITS
		-010P	-020P	-040P	-060P	-080P	-100P	
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	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 ($T_C=60^{\circ}\text{C}$)	I_O				25			A
Peak Forward Surge Current	I_{FSM}				350			A
I^2t Rating for Fusing ($1\text{ms}<t<8.3\text{ms}$)	I^2t				375			A^2s
RMS Isolation Voltage (case to lead)	V_{iso}				2500			Vac
Operating and Storage Junction Temperature	T_J, T_{stg}				-65 to +150			$^{\circ}\text{C}$
Thermal Resistance	θ_{JC}				1.9			$^{\circ}\text{C/W}$

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

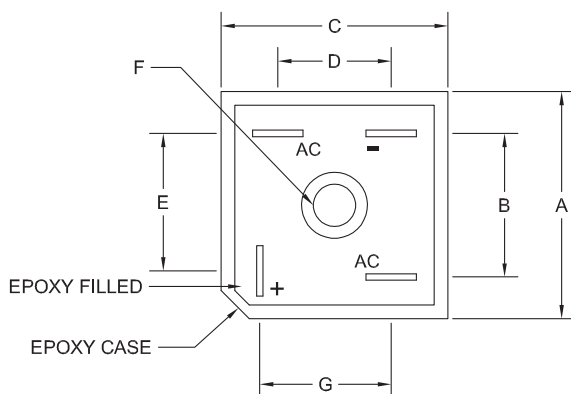
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		10	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=125^{\circ}\text{C}$		500	μA
V_F	$I_F=12.5\text{A}$		1.2	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$	300		pF

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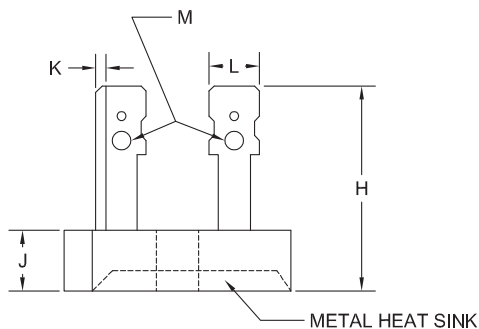
CASE FP - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.115	1.135	28.32	28.83
B	0.688	0.732	17.50	18.59
C	1.115	1.135	28.32	28.83
D	0.542	0.582	13.77	14.78
E	0.618	0.672	15.70	17.07
F (DIA.)	0.200	0.220	5.08	5.59
G	0.632	0.672	16.05	17.07
H	0.740	0.849	18.80	21.58
J	0.290	0.334	7.37	8.50
K	0.027	0.035	0.71	0.91
L	0.250		6.35	
M (DIA.)	0.940		2.39	

CASE FP (REV:R2)

MARKING: FULL PART NUMBER



R2

R3 (24-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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