CBR1F-D020S SERIES

SURFACE MOUNT 1 AMP FAST RECOVERY SILICON BRIDGE RECTIFIER



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBR1F-D020S Series types are fast recovery, full wave bridge rectifiers mounted in a durable epoxy surface mount molded case, utilizing glass passivated chips.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C unless otherwise specified)	SYMBOL	CBR1F- <u>D020S</u>	CBR1F- <u>D040S</u>	CBR1F- <u>D060S</u>	CBR1F- <u>D080S</u>	CBR1F- <u>D100S</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	VRRM	200	400	600	800	1000	V
DC Blocking Voltage	VR	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	140	280	420	560	700	V
Average Forward Current (T _A =40°C)	IO			1.0			А
Peak Forward Surge Current	^I FSM			50			А
Rating for Fusing (t<8.35ms)	l ² t			3.74			A ² s
Operating and Storage Junction Temperature	T _J , T _{stg}			-65 to +15)		°C

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I _R	V _R =Rated V _{RRM}		5.0	μA
IR	V _R =Rated V _{RRM} , T _A =125°C		0.5	mA
V _F	I _F =1.0A		1.3	V
t _{rr}	I _F =0.5A, I _R =1.0A, Rec. to 0.25A (200V, 300V, 400V)		200	ns
t _{rr}	I _F =0.5A, I _R =1.0A, Rec. to 0.25A (600V)		300	ns
t _{rr}	I _F =0.5A, I _R =1.0A, Rec. to 0.25A (800V, 1000V)		500	ns
Сј	V _R =4.0V, f=1.0MHz	25		pF

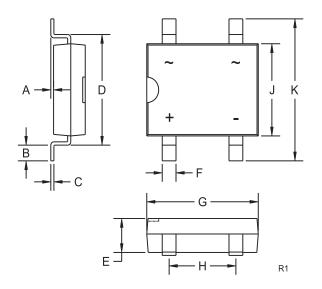
R1 (4-January 2010)



CBR1F-D020S SERIES

SURFACE MOUNT 1 AMP FAST RECOVERY SILICON BRIDGE RECTIFIER

SMDIP CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETER	
SYMBOL	MIN	MAX	MIN	MAX
A	0.004	0.008	0.10	0.20
В	0.040	0.060	1.02	1.52
С	0.009		0.23	
D	0.290	0.310	7.37	7.87
E	0.086	0.098	2.18	2.49
F	0.038	0.042	0.97	1.07
G	0.316	0.335	8.03	8.51
Н	0.195	0.205	4.95	5.21
J	0.245	0.255	6.22	6.48
K	0.360	0.410	9.14	10.41

SMDIP (REV: R1)

MARKING: FULL PART NUMBER

R1 (4-January 2010)

www.centralsemi.com

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

DESIGNER SUPPORT/SERVICES

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

- Free guick 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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors: www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's LIMITATIONS AND DAMAGES DISCLAIMER. which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms





Product End of Life Notification

PDN ID:	PDN01093
Notification Date:	6/06/18
Last Buy Date:	N/A
Last Shipment Date	N/A

http://www.centralsemi.com

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.



http://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01093
Notification Date:	6/06/18
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary:All 1.0 Amp Fast Recovery Bridge Rectifiers in the DIP and SMDIP packages are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Central Part Number	Replacement
CBR1F-D010	N/A
CBR1F-D020	N/A
CBR1F-D020S	N/A
CBR1F-D020S TR13	N/A
CBR1F-D040	N/A
CBR1F-D040S	N/A
CBR1F-D060	N/A
CBR1F-D060S	N/A
CBR1F-D060S TR13	N/A
CBR1F-D080	N/A
CBR1F-D100	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.