

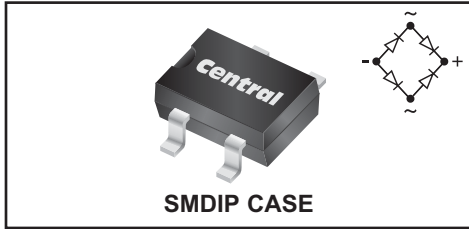
CBR2-D020S SERIES
SURFACE MOUNT SILICON
2.0 AMP
BRIDGE RECTIFIERS



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBR2-D020S series devices are silicon full wave bridge rectifiers mounted in a durable epoxy surface mount molded case, utilizing glass passivated chips.



MARKING: FULL PART NUMBER

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

	SYMBOL	CBR2 -D020S	CBR2 -D040S	CBR2 -D060S	CBR2 -D080S	CBR2 -D100S	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
DC Blocking Voltage	V_R	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	560	700	V
Average Forward Current ($T_A=40^\circ\text{C}$)	I_O			2.0			A
Peak Forward Surge Current ($t=8.3\text{ms}$)	I_{FSM}			60			A
Peak Forward Surge Current ($t=1.0\text{ms}$)	I_{FSM}			65			A
Rating for Fusing ($t=8.3\text{ms}$)	I^2t			10			A^2s
Operating and Storage							
Junction Temperature	T_J, T_{stg}			-65 to +150			$^\circ\text{C}$
Typical Thermal Resistance (Note 1)	Θ_{JA}			40			$^\circ\text{C}/\text{W}$
Typical Thermal Resistance	Θ_{JL}			15			$^\circ\text{C}/\text{W}$

Note 1: Device mounted on PCB with 13mm x 13mm copper pads.

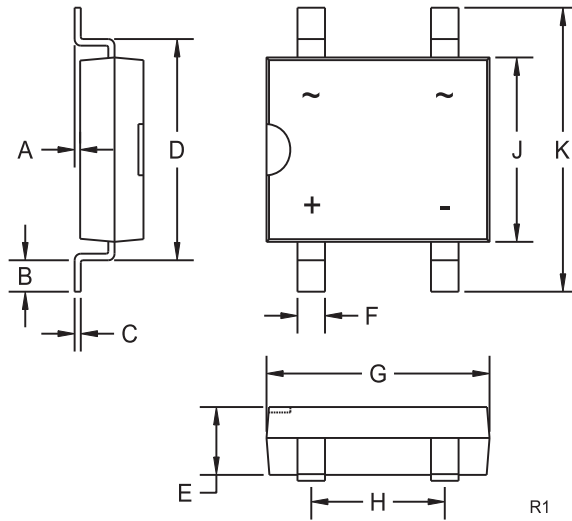
ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$		0.5	mA
V_F	$I_F=2.0\text{A}$		1.1	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$	25		pF

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SMDIP CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.008	0.10	0.20
B	0.040	0.060	1.02	1.52
C	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
H	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

R2 (11-May 2018)

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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