

**CBR2-D020S SERIES**

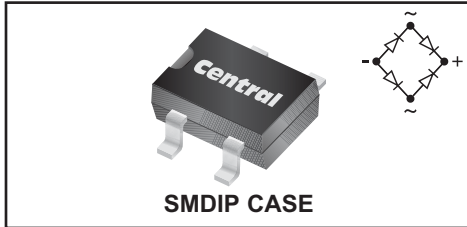
**SURFACE MOUNT  
2 AMP  
SILICON BRIDGE RECTIFIER**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CBR2-D020S series types 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	$I_{FSM}$			50			A
Rating for Fusing ( $t<8.35\text{ms}$ )	$I^2t$			10			$\text{A}^2\text{s}$
Operating and Storage							
Junction Temperature	$T_J, T_{stg}$			-65 to +150			$^{\circ}\text{C}$
Typical Thermal Resistance (Note 1)	$\Theta_{JA}$			40			$^{\circ}\text{C}/\text{W}$
Typical Thermal Resistance	$\Theta_{JL}$			15			$^{\circ}\text{C}/\text{W}$

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

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

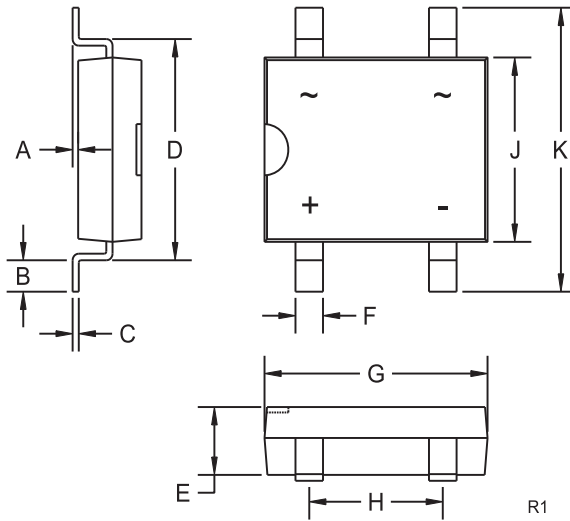
Notes: (1) Device mounted on PCB with 13mm x 13mm copper pads.

R0 (15-December 2010)

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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**

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