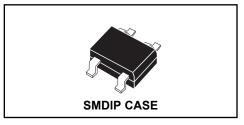
#### **CBR1F-D020S SERIES**

### 1.0 AMP DUAL IN LINE FAST RECOVERY SILICON BRIDGE RECTIFIER





### **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. To order devices on tape and reel (1,000/13" reel) add TR13 suffix.

MARKING CODE: FULL PART NUMBER

 $\textbf{MAXIMUM RATINGS:} \ \ (T_{\mbox{\scriptsize M}} = 25^{\circ}\mbox{C unless otherwise specified})$ 

	SYMBOL	CBR1F- D020S	CBR1F- D040S	CBR1F- <u>D060S</u>	CBR1F- <u>D080S</u>	CBR1F- <u>D100S</u>	<u>UNITS</u>
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 <sub>A</sub> =40°C)	IO			1.0			Α
Peak Forward Surge Current	$I_{FSM}$			50			Α
Rating for Fusing (t<8.35ms)	l <sup>2</sup> t			3.74			$A^2s$
Operating and Storage Junction Temperature	T <sub>J</sub> ,T <sub>stg</sub>			-65 to +150	)		°C

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

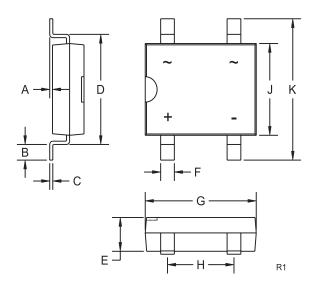
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>			5.0	μΑ
$I_{R}$	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =125°C			0.5	mA
$V_{F}$	I <sub>F</sub> =1.0A			1.3	V
t <sub>rr</sub> (200V thru 400V)	$I_F$ =0.5A, $I_R$ =1.0A, Recov. to 0.25A			200	ns
t <sub>rr</sub> (600V)	$I_F$ =0.5A, $I_R$ =1.0A, Recov. to 0.25A			300	ns
t <sub>rr</sub> (800V, 1000V)	$I_F$ =0.5A, $I_R$ =1.0A, Recov. to 0.25A			500	ns
CJ	V <sub>R</sub> =4.0V, f=1.0MHz		25		pF



## **CBR1F-D020S SERIES**

## 1.0 AMP DUAL IN LINE FAST RECOVERY SILICON BRIDGE RECTIFIER

## **SMDIP CASE - MECHANICAL OUTLINE**



DIMENSIONS					
	INC	HES	MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	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	
Е	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 CODE: FULL PART NUMBER

R0 (14-January 2003)