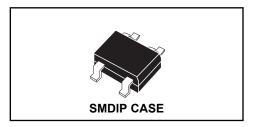
# **CBR1U-D010S CBR1U-D020S**

#### SURFACE MOUNT 1.0 AMP ULTRA FAST SILICON BRIDGE RECTIFIER



Central Market Corp.

### **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CBR1U-D010S, CBR1U-D020S types are silicon full wave ultra fast bridge rectifier mounted in a durable epoxy surface mount molded case, utilizing glass passivated chips.

MARKING CODE: FULL PART NUMBER

 $\textbf{MAXIMUM RATINGS:} \ \, (\text{T}_{A}\text{=}25^{\circ}\text{C unless otherwise noted})$ 

	SYMBOL	CBR1U-D010S	CBR1U-D020S	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	V
DC Blocking Voltage	$v_R$	100	200	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	140	V
Average Forward Current (T <sub>A</sub> =40°C)	lo	•	1.0	Α
Peak Forward Surge Current	I <sub>FSM</sub>	:	50	Α
Operating and Storage Junction Temperature	T <sub>J</sub> ,T <sub>stg</sub>	-65 t	o +150	°C
Thermal Resistance	$\Theta_{\sf JA}$		40	°C/W

## **ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

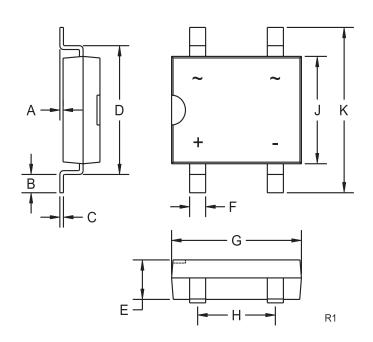
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$V_{F}$	I <sub>F</sub> =1.0A (Per Diode)		1.05	V
$I_{R}$	V <sub>R</sub> =Rated V <sub>RRM</sub>		5.0	μΑ
$I_{R}$	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =125°C		1.0	mA
t <sub>rr</sub>	I <sub>F</sub> =500mA, I <sub>R</sub> =1.0A, I <sub>rr</sub> =250mA		50	ns



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## **SMDIP CASE - MECHANICAL OUTLINE**



MARKING CODE: FULL PART NUMBER

DIMENSIONS								
	INCHES		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				
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				
7	0.245	0.255	6.22	6.48				
K	0.360	0.410	9.14	10.41				

SMDIP (REV: R1)