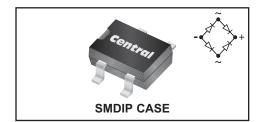


SURFACE MOUNT 1 AMP ULTRA FAST SILICON BRIDGE RECTIFIER





www.centralsemi.com

## DESCRIPTION:

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

## MARKING: FULL PART NUMBER

## MAXIMUM RATINGS:

(T <sub>A</sub> =25°C unless otherwise noted)	SYMBOL	CBR1U-D010S	CBR1U-D020S	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	200	V
DC Blocking Voltage	VR	100	200	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	140	V
Average Forward Current (T <sub>A</sub> =40°C)	IO	1	.0	А
Peak Forward Surge Current	IFSM	5	0	А
Operating and Storage				
Junction Temperature	т <sub>Ј</sub> , т <sub>stg</sub>	-65 to	+150	°C
Thermal Resistance	$\Theta_{JA}$	4	0	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>		5.0	μA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =125°C		1.0	mA
VF	I <sub>F</sub> =1.0A		1.05	V
t <sub>rr</sub>	I <sub>F</sub> =500mA, I <sub>R</sub> =1.0A, I <sub>rr</sub> =250mA		50	ns

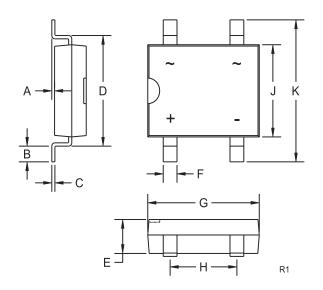
R3 (4-January 2010)



### CBR1U-D010S CBR1U-D020S

## SURFACE MOUNT 1 AMP ULTRA FAST SILICON BRIDGE RECTIFIER

## SMDIP CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	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

R3 (4-January 2010)

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# **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 (2<sup>nd</sup> 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

## CONTACT US

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