CBR1U-D010S CBR1U-D020S

SURFACE MOUNT 1 AMP ULTRA FAST SILICON BRIDGE RECTIFIER

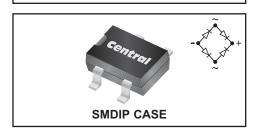


www.centralsemi.com

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 _A =25°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 _{R(RMS)}	70	140	V
Average Forward Current (T _A =40°C)	lo		1.0	Α
Peak Forward Surge Current	I _{FSM}		50	Α
Operating and Storage				
Junction Temperature	T _J , T _{stg}	-65	to +150	°C
Thermal Resistance	Θ.ΙΔ		40	°C/W

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

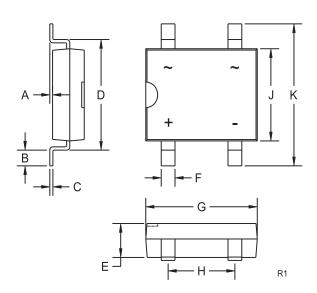
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V_R =Rated V_{RRM}		5.0	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =125°C		1.0	mA
VF	I _F =1.0A		1.05	V
t _{rr}	I _E =500mA, I _R =1.0A, I _{rr} =250mA		50	ns

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SMDIP CASE - MECHANICAL OUTLINE



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			
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: FULL PART NUMBER

R3 (4-January 2010)