

Silicon Bridge Rectifier

CBR1U-D010S

100V / 1A

ultrafast

DATASHEET

OEM – Central Semiconductor Corp.

Source: Central Databook 2004

CBR1U-D010S
 CBR1U-D020S
 SURFACE MOUNT
 1.0 AMP ULTRA FAST
 SILICON BRIDGE RECTIFIER



Central™

Semiconductor 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

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)	I _O		1.0	A
Peak Forward Surge Current	I _{FSM}		50	A
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150	°C
Thermal Resistance	θ _{JA}		40	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V _F	I _F =1.0A (Per Diode)		1.05	V
I _R	V _R =Rated V _{RRM}		5.0	μA
I _R	V _R =Rated V _{RRM} , T _A =125°C		1.0	mA
t _{rr}	I _F =500mA, I _R =1.0A, I _{rr} =250mA		50	ns

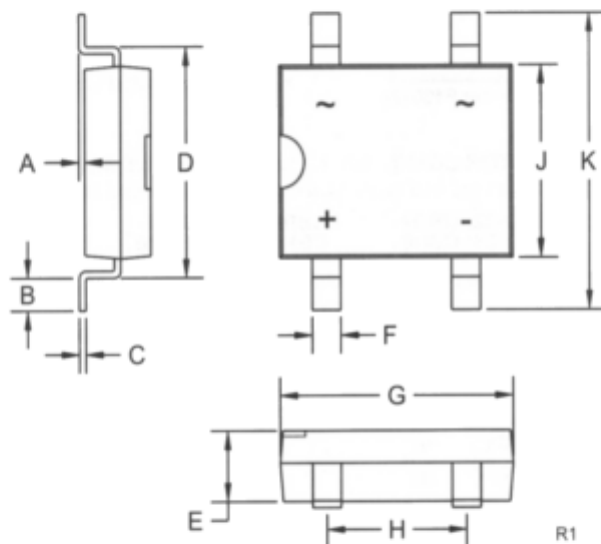
For Typical Electrical Characteristic Data for this device, please see Process CPD16 on page 877.



CBR1U-D010S
CBR1U-D020S

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

SMDIP CASE - MECHANICAL OUTLINE



DATA SHEETS

**MARKING CODE:
FULL PART NUMBER**

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)

R2 (13-November 2002)