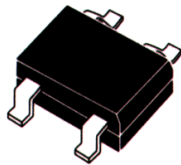




**CBR1U-D010S
CBR1U-D020S**

**1.0 AMP ULTRA FAST
BRIDGE RECTIFIER**



SMDIP CASE

**Central™
Semiconductor Corp.**

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.

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$ 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	$V_{R(RMS)}$	70	140	V
Average Forward Current ($T_A=40^{\circ}\text{C}$)	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	$^{\circ}\text{C}$
Thermal Resistance	Θ_{JA}		40	$^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V_F	$I_F=1.0\text{A}$ (Per Diode)		1.05	V
I_R	$V_R=\text{Rated } V_{RRM}$		5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=125^{\circ}\text{C}$		1.0	mA
t_{rr}	$I_F=500\text{mA}, I_R=1.0\text{A}, I_{rr}=250\text{mA}$		50	ns

All dimensions in inches (mm).

TOP VIEW

