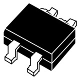
CBRHD SERIES

HIGH DENSITY SURFACE MOUNT ½ AMP DUAL IN LINE BRIDGE RECTIFIER

Central™
Semiconductor Corp.

HD™ BRIDGE



HDDIP CASE

FEATURES:

- Truly efficient use of board space, requires only 42mm² of board space vs. 120mm² of board space for industry standard 1.0 Amp surface mount bridge rectifier.

- 50% higher density (amps/mm²) than the industry standard 1.0 Amp surface mount bridge rectifier.

- Glass passivated chips for high reliability.

DESCRIPTION:
The CENTRAL SEMICONDUCTOR CBRHD series types are silicon full wave bridge rectifiers mounted in a durable epoxy surface mount molded case, utilizing glass passivated chips.

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	CBRHD -02	CBRHD -04	CBRHD -06	CBRHD -10*	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	1000	V
DC Blocking Voltage	V_R	200	400	600	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	700	V
Average Forward Current (T_A=40°C)(1)	I_O	0.5				A
Average Forward Current (T_A=40°C)(2)	I_O	0.8				A
Peak Forward Surge Current	I_{FSM}	30				A
Operating and Storage Junction Temperature	T_J,T_{stg}	-65 to +150				°C

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V_F	I_F=400mA (Per Diode)			1.0	V
I_R	V_R=Rated V_{RRM}			5.0	μA
I_R	V_R=Rated V_{RRM}, T_A=125°C			500	μA
C_J	V_R=4.0V, f=1.0MHz		20		pF

(1) Mounted on a Glass-Epoxy P.C.B.
(2) Mounted on a Ceramic P.C.B.
*Available on special order, please consult factory.

All dimensions in inches (mm).

TOP VIEW