

## New Product Announcement CDBHM120L-HF Thru. CDBHM1100L-HF

## Low V<sub>F</sub> SMD Schottky Bridge Rectifiers

Package: MBS (Molded Plastic)

Reverse Voltage: 20 to 100 Volts

Forward Current: 1.0 Amp

**RoHS** Device

**Halogen Free** 

Lead Free

High current capability, Low V<sub>F</sub>

High temperature soldering guaranteed: 260°C / 10 second

Lead: solder plated

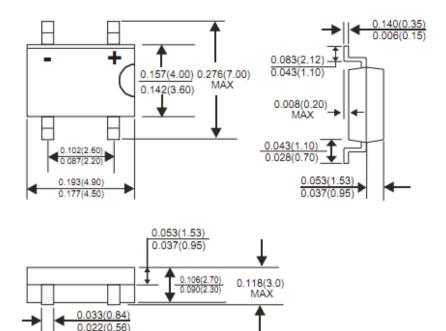
**Polarity: As marked** 



Designed for today's high efficiency applications, Comchip's CDBHM low V<sub>F</sub> Schottky bridge rectifier series utilizes the MBS package. Rectifying faster than standard bridge rectifiers, the CDBHM series is ideal for components of DC power supplies and provides full-wave

rectification from a two-wire AC input, resulting in lower cost and weight as compared to a rectifier with a 3-wire input from a transformer with a center-tapped secondary winding. With a forward current of 1 amp, reverse voltage applications range from 20 to 100 volts.

MBS



Dimensions in inches and (millimeters)



www.comchiptech.com



New Product Announcement CDBHM120L-HF Thru. CDBHM1100L-HF

## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbol	CDBHM 120L-HF	CDBHM 140L-HF	CDBHM 160L-HF	CDBHM 180L-HF	CDBHM 1100L-HF	Units
Maximum. Repetitive peak reverse voltage	VRRM	20	40	60	80	100	V
Maximum. DC blocking voltage	VDC	14	28	42	56	70	V
Maximum. RMS voltage	Vrms	20	40	60	80	100	V
Maximum. Instantaneous forward voltage @ 0.5A	VF	0.55 0.65 0.85			85	V	
Average Forward rectified current 0.2*0.2" (5.0*5.0mm)copper pad area ,(see figure 2)	lav	1.0					А
Peak Forward surge current,8.3ms single half sine-wave superimposed on Rated Load (JEDEC method)	Ігам	40					А
Maximum. DC reverse current @TA=25°C rated DC blocking voltage per leg @TA=100°C	lĸ	0.5 20					mA
Typical thermal resistance(Note 3)	Reja	85					°C/W
	Rejl	20					
Typical junction capacitance(Note 2)	CJ	250			125		pF
Operating temperature range	TJ	-55 to +125 -55 to +			+150	°C	
Sorage temperature range	Тѕтс	-55 to +150					°C

Notes: 1.Pulse test: 300µS pulse width, 1% duty cycle.

2.Measured at 1.0MHz and applied reverse voltage of 4.0 Voltage.

3.Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2x0.2" (5.0x5.0mm) copper pad areas.

