

## Low $V_F$ SMD Schottky Bridge Rectifiers

Package: MBS-2 (Molded Plastic)

Reverse Voltage: 20 to 100 Volts

Forward Current: 2.0 Amps

RoHS Device

Halogen Free

Lead Free

For surface mounted applications

Metal-Semiconductor junction with guarding

Epitaxial construction

Very low forward Voltage drop

High current capability

Plastic material has UL flammability classification 94V-0

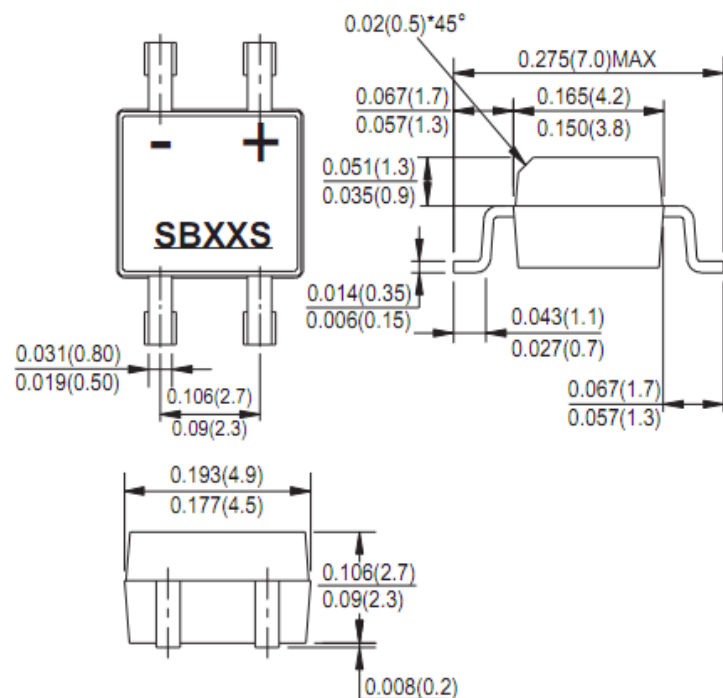
For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



Comchip's CDBHM low  $V_F$  Schottky bridge rectifier series utilizes the MBS-2 package. The package is designed for surface mount applications. The low forward voltage and fast recovery time leads to increased efficiency. With today's market demanding smaller, thinner, and more powerful products,

Comchip is striving to exceed market demands with quality products at a conveniently low price. With a forward current of 2 amps, reverse voltage applications range from 20 to 100 volts.

### MBS-2



Dimensions in inches and (millimeters)

Polarity: Indicated by cathode band

Weight: 0.125 gram

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## Maximum Rating And Electrical Characteristics

Rating at TA=25°C, unless otherwise noted.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Parameter	Symbol	CDBHM 220L-HF	CDBHM 230L-HF	CDBHM 240L-HF	CDBHM 250L-HF	CDBHM 260L-HF	CDBHM 280L-HF	CDBHM 290L-HF	CDBHM 2100L-HF	Unit	
	Marking	SB22S	SB23S	SB24S	SB25S	SB26S	SB28S	SB29S	SB210S		
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	90	100	V	
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	63	70	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	90	100	V	
Maximum Average Forward Rectified Current @T <sub>L</sub> =100 °C	I <sub>(AV)</sub>	2.0								A	
Peak Forward Surge Current, 8.3mS single half sine-wave, superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50								A	
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	0.55		0.70		0.85				V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25 °C @T <sub>J</sub> =100 °C	I <sub>R</sub>					1.0 20					mA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	125								pF	
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	20								°C/W	
Operating Temperature Range	T <sub>J</sub>	-55 to +125								°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150								°C	

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance Junction to lead.

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