

# Schottky Bridge Rectifiers

**COMCHIP**  
SMD DIODE SPECIALIST

## CDBHD220-G Thru 260-G

Reverse Voltage: 20 - 60 Volts

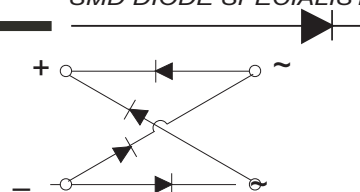
Forward Current: 2.0 Amp

### Features

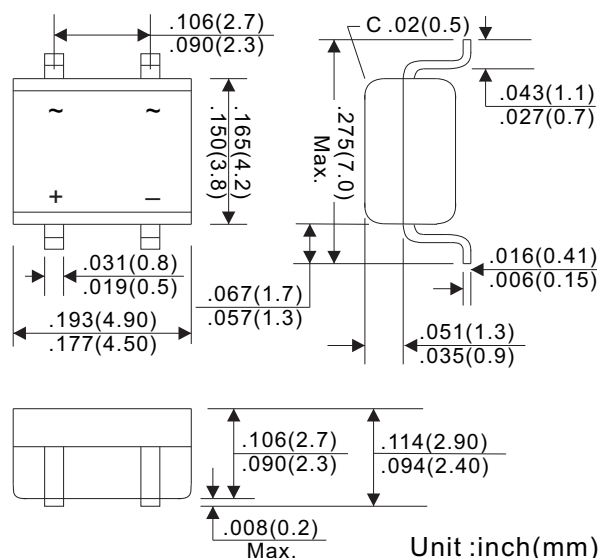
- Schottky barrier chips in bridge
- Metal-Semiconductor junction with guard ring
- Highsurge current capability
- Silicon epitaxial planar chips
- For use in low voltage, high efficiency inverters, free wheeling, and polarity protection applications
- Lead-free part, meet RoHS requirements

### Mechanical Data

- Case: Mini-Dip bridge (TO-269AA) plastic molded case
- Epoxy: UL94-V0 rated flame retardant
- Terminals: Solderable per MIL-STD-750 Method 2026
- Polarity: As marked on body
- Mounting Position: Any
- Weight: 0.0078 ounces, 0.22 grams



Mini-DIP



## MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

<i>CDBHD</i> - Symbols	220	240	260	Units	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	40	60	Volts
Maximum RMS Voltage	VRMS	14	28	42	Volts
Maximum DC Blocking Voltage	VDC	20	40	60	Volts
Maximum Average Forward Rectified Current 0.2x0.2" (5.0x5.0mm) copper pad area, see Figure 1	I <sub>AV</sub>	2.0		Amps	
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50.0		Amps	
Maximum Forward Voltage at 1.0A (Note 1)	V <sub>F</sub>	0.50	0.70	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.5 20.0		mA	
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	150		pF	
Typical Thermal Resistance (Note 3)	R <sub>θJA</sub> R <sub>θJL</sub>	85.0 20.0		°C/W	
Operating Junction Temperature Range	T <sub>J</sub>	-55 ~ +125		°C	
Storage Temperature Range	T <sub>STG</sub>	-55 ~ +150		°C	

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

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

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.

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Fig. 1 - Forward Current Derating Curve

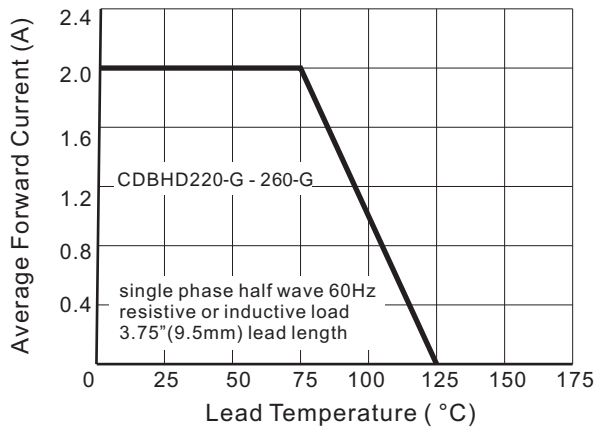


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

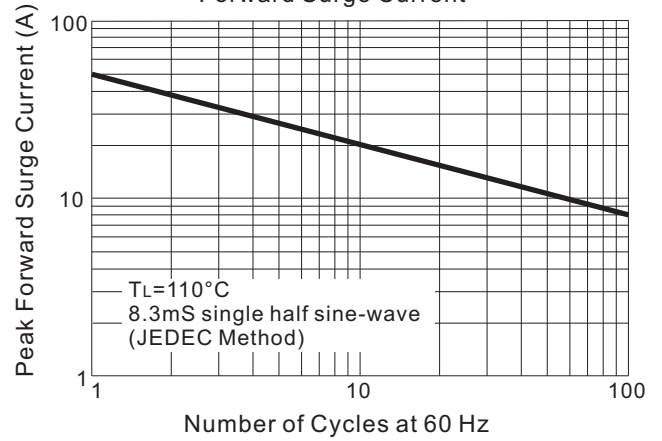


Fig. 3 - Typical Instantaneous Forward Characteristics

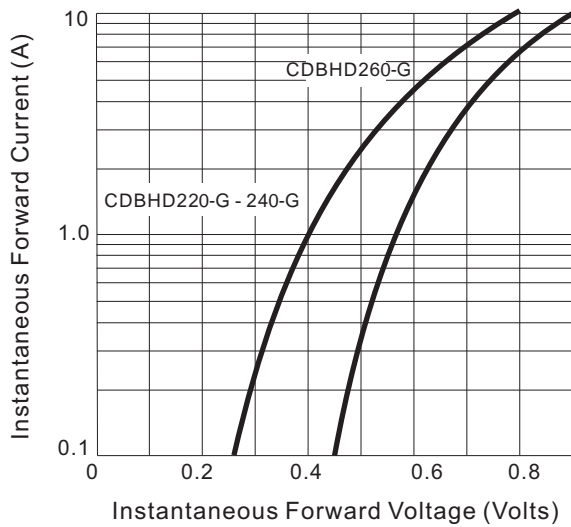


Fig. 4A - Typical Reverse Characteristics

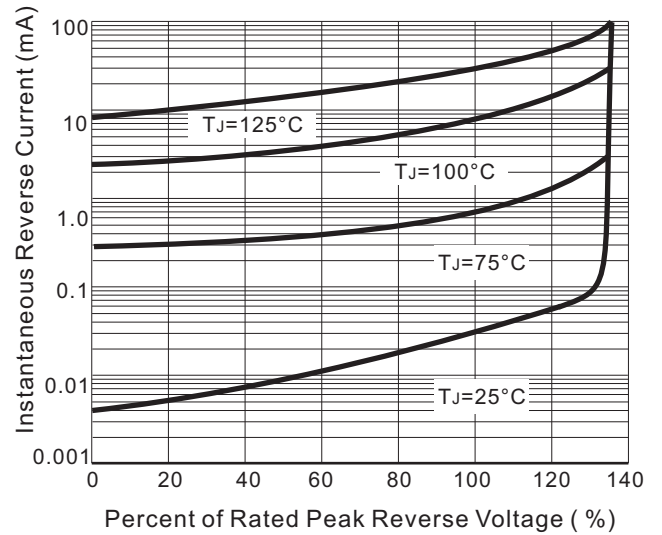


Fig. 5 - Typical Junction Capacitance

