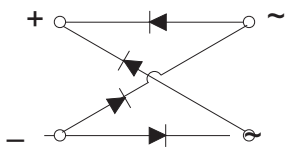
Schottky Bridge Rectifiers

COMCHIP
SMD DIODE SPECIALIST

CDBHD220-G Thru 260-G

Reverse Voltage: 20 - 60 Volts
Forward Current: 2.0 Amp



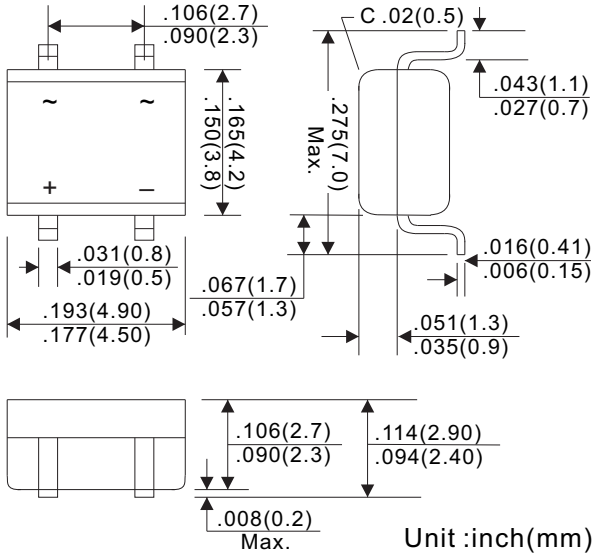
Features

- 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



Unit :inch(mm)

MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

CDBHD -	Symbols	***220***	***240***	***260***	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	Volts
Maximum RMS Voltage	V_{RMS}	14	28	42	Volts
Maximum DC Blocking Voltage	V_{DC}	20	40	60	Volts
Maximum Average Forward Rectified Current 0.2x0.2" (5.0x5.0mm) copper pad area, see Figure 1	I_{AV}	2.0			Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0			Amps
Maximum Forward Voltage at 1.0A (Note 1)	V_F	0.50		0.70	Volts
Maximum DC Reverse Current T_A= 25°C at Rated DC Blocking Voltage T_A= 100°C	I_R	0.5 20.0			mA
Typical Junction Capacitance (Note 2)	C_J	150			pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$ $R_{\theta JL}$	85.0 20.0			°C/W
Operating Junction Temperature Range	T_J	-55 ~ +125			°C
Storage Temperature Range	T_{STG}	-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.

Fig.1 - Forward Current Derating Curve

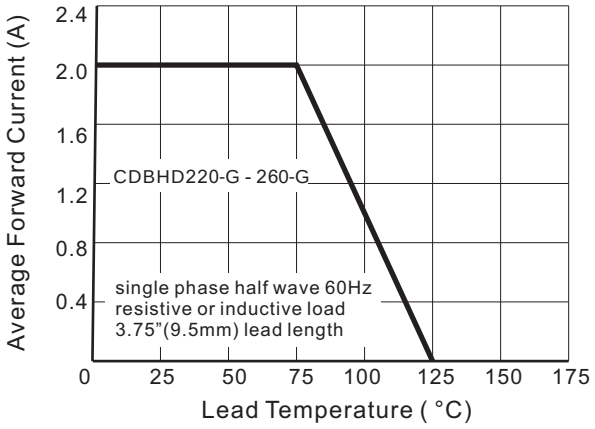


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

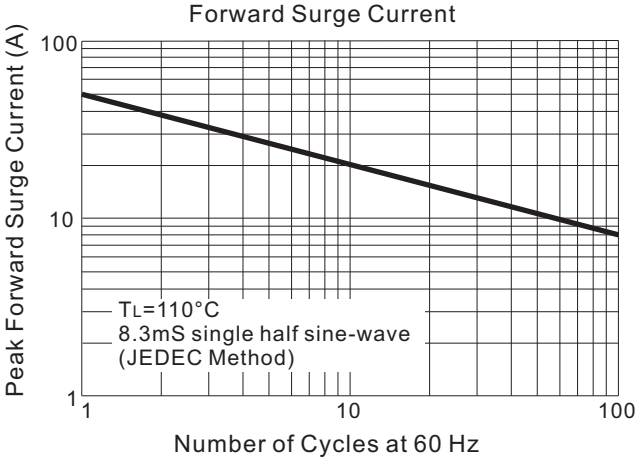


Fig. 3 - Typical Instantaneour Forward Characteristics

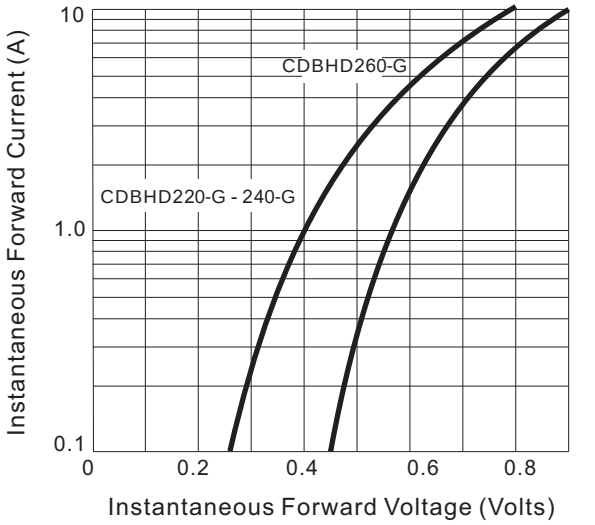


Fig. 4A - Typical Reverse Characteristics

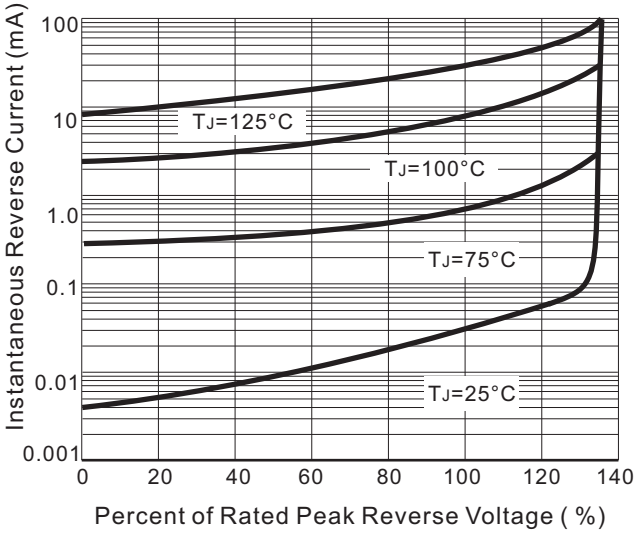


Fig. 5 - Typical Junction Capacitance