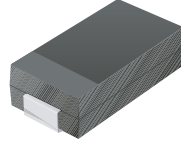


# SMD Schottky Barrier Rectifier

**COMCHIP**  
SMD DIODE SPECIALIST



CDBB220L-G THRU CDBB2100L-G

Reverse Voltage: 20 ~ 100 Volts

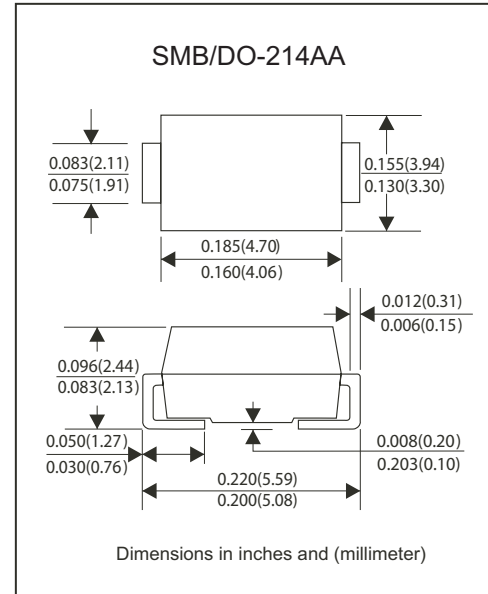
Forward Current: 2.0 Amp

## Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

## Mechanical Data

- Case: Molded plastic SMB/DO-214AA
- Eposy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-750 method 2026
- Mounting position: Any
- Weight: 0.093 gram



## Maximum Rating and Electrical Characteristics

Rating at 25°C ambient temperature unless specified.

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

For capacitive load, derate current by 20%

| CHARACTERISTIC                                                                                          | SYBMOL   | CDBB<br>220L-G | CDBB<br>240L-G | CDBB<br>260L-G | CDBB<br>280L-G | CDBB<br>2100L-G | UNIT |
|---------------------------------------------------------------------------------------------------------|----------|----------------|----------------|----------------|----------------|-----------------|------|
| Maximum Recurrent Peak Reverse Voltage                                                                  | VRRM     | 20             | 40             | 60             | 80             | 100             | V    |
| Maximum RMS Voltage                                                                                     | VRMS     | 14             | 28             | 42             | 56             | 70              | V    |
| Maximum DC Blocking Voltage                                                                             | VDC      | 20             | 40             | 60             | 80             | 100             | V    |
| Maximum Average Forward Rectified Current<br>TL=100°C                                                   | l(AV)    | 2.0            |                |                |                |                 | A    |
| Peak Forward Surge Current, 8.3ms single<br>Half sine-wave superimposed on rated load<br>(JEDEC Method) | IFSM     | 50             |                |                |                |                 | A    |
| Maximum Instantaneous Forward Voltage<br>@ 2.0 A                                                        | VF       | 0.5            |                | 0.7            | 0.85           |                 | V    |
| Maximum DC Reverse Current @TJ=25°C<br>At Rated DC Blocking Voltage @TJ=125°C                           | IR       | 0.5<br>1.0     |                |                |                |                 | mA   |
| Typical junction Capacitance (Note 1)                                                                   | CJ       | 200            |                |                |                |                 | pF   |
| Operating Junction and Storage Temperature<br>Range                                                     | TJ, TSTG | -55 to +175    |                |                |                |                 | °C   |

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

“-G” suffix designates RoHS compliant Version



## Rating and Characteristic Curesvs (CDBB220L-G Thru CDBB2100L-G)

FIG.1 - FORWARD CURRENT DERATING CURVE

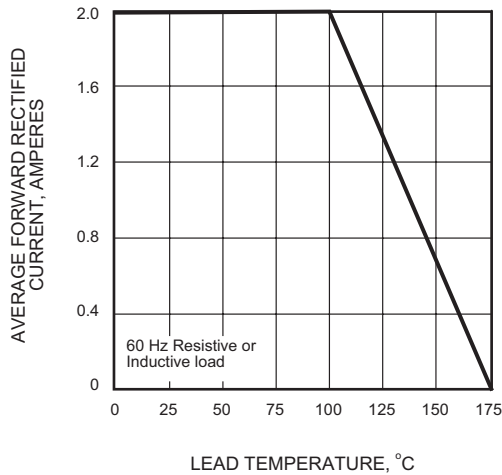


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

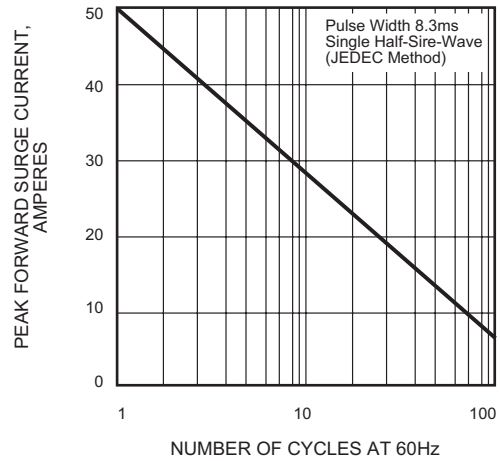


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

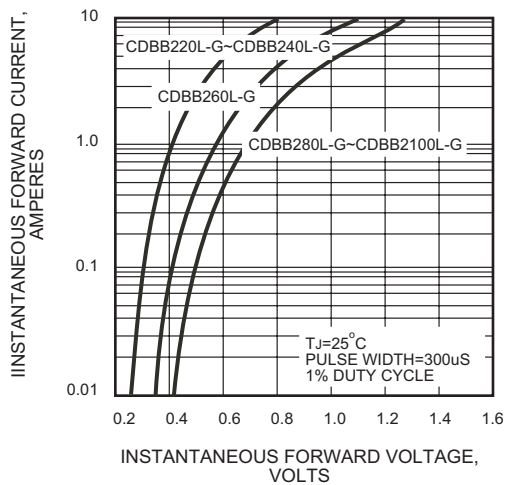


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

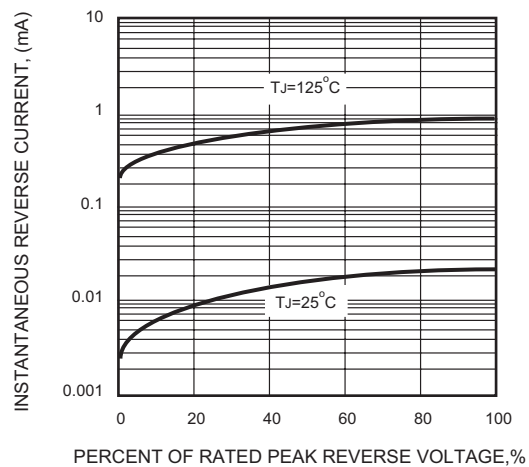


FIG.5 - TYPICAL JUNCTION CAPACITANCE

