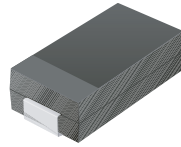


SMD Schottky Barrier Rectifier

COMCHIP
SMD DIODE SPECIALIST



CDBB220L-G THRU CDBB2100L-G

Reverse Voltage: 20 ~ 100 Volts

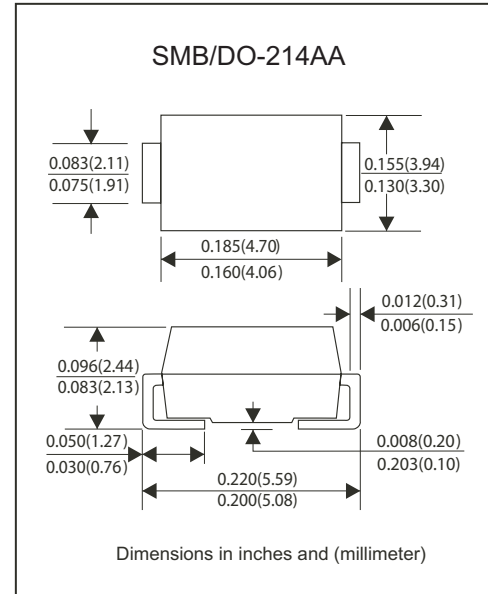
Forward Current: 2.0 Amp

Features

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

Mechanical Data

- Case: Molded plastic SMB/DO-214AA
- Epoxy: 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 | SYMBOL | CDBB 220L-G | CDBB 240L-G | CDBB 260L-G | CDBB 280L-G | CDBB 2100L-G | UNIT |
|---|-----------------------------------|----------------|----------------|----------------|----------------|-----------------|------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 20 | 40 | 60 | 80 | 100 | V |
| Maximum RMS Voltage | V _{RMS} | 14 | 28 | 42 | 56 | 70 | V |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 40 | 60 | 80 | 100 | V |
| Maximum Average Forward Rectified Current T _L =100°C | I _(AV) | 2.0 | | | | | A |
| Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 50 | | | | | A |
| Maximum Instantaneous Forward Voltage @ 2.0 A | V _F | 0.5 | | 0.7 | | 0.85 | V |
| Maximum DC Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =125°C | I _R | 0.5 1.0 | | | | | mA |
| Typical junction Capacitance (Note 1) | C _J | 200 | | | | | pF |
| Operating Junction and Storage Temperature Range | T _J , T _{STG} | -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

SMD Schottky Barrier Rectifier

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Rating and Characteristic Curves (CDBB220L-G Thru CDBB2100L-G)

FIG.1 - FORWARD CURRENT DERATING CURVE

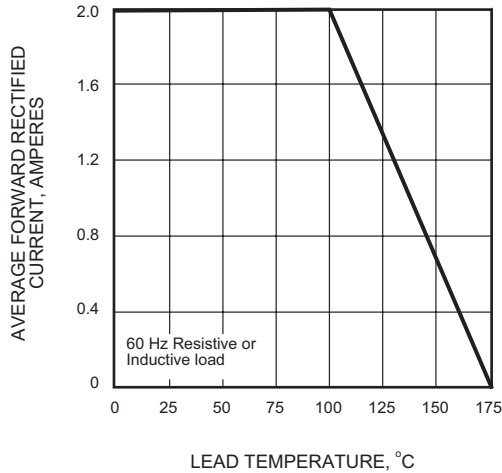


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

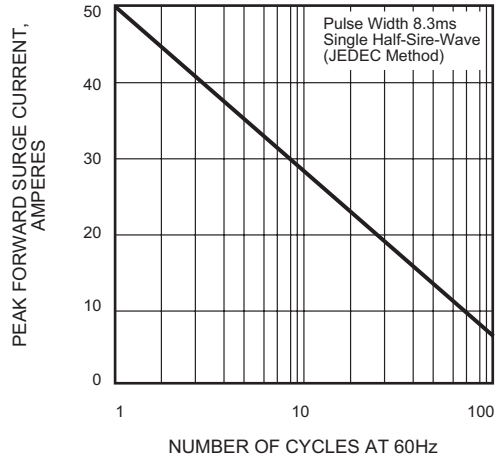


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

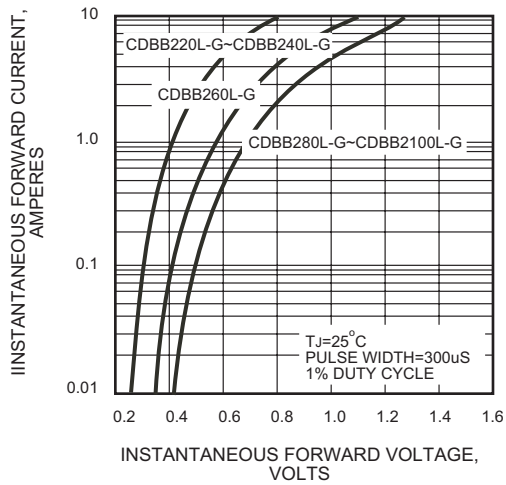


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

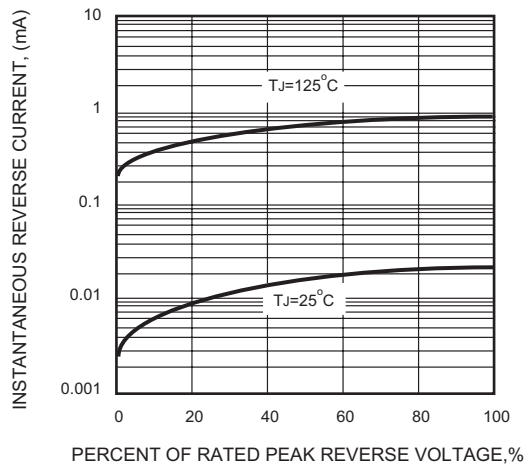


FIG.5 - TYPICAL JUNCTION CAPACITANCE

