

SMD Schottky Barrier Rectifier

COMCHIP
SMD DIODE SPECIALIST

CDBB220-G THRU CDBB2100-G

Reverse Voltage: 20 ~ 100 Volts

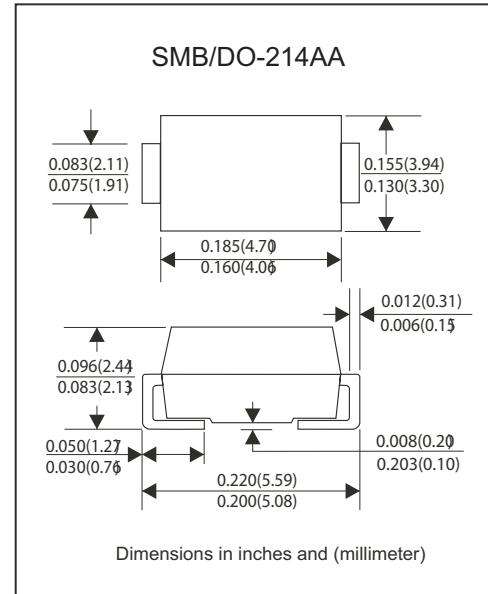
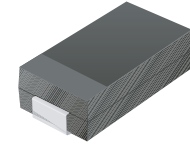
Forward Current: 2.0 Amp

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 220-G	CDBB 240-G	CDBB 260-G	CDBB 280-G	CDBB 2100-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



Rating and Characteristic Curves (CDBB220-G Thru CDBB2100-G)

Fig. 1 - Reverse Characteristics

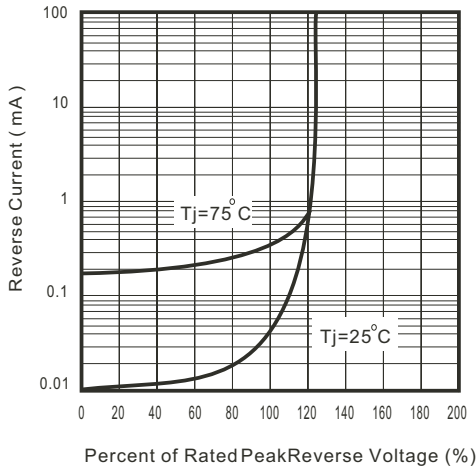


Fig. 2 - Forward Characteristics

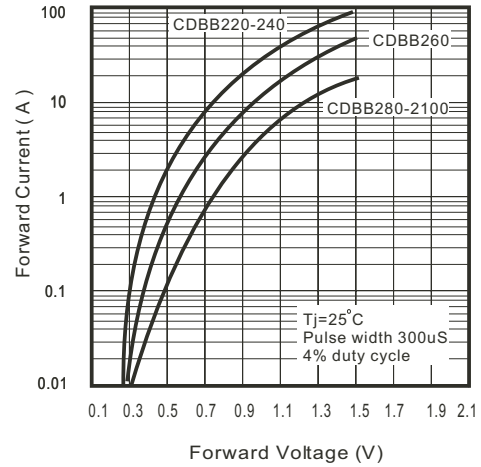


Fig. 3 - Junction Capacitance

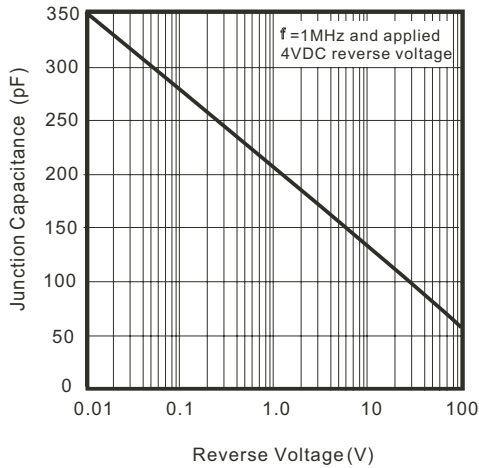


Fig. 4 - Current Derating Curve

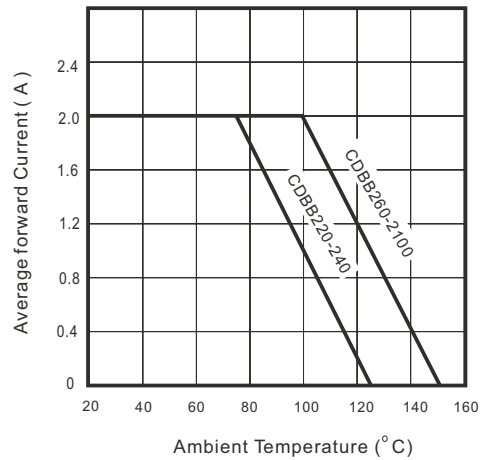


Fig. 5 - Non Repetitive Forward Surge Current

