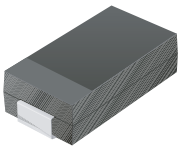
SMD Schottky Barrier Rectifier

COMCHIP
SMD DIODE SPECIALIST

CDBB220-G THRU CDBB2100-G

Reverse Voltage: 20 ~ 100 Volts
Forward Current: 2.0 Amp



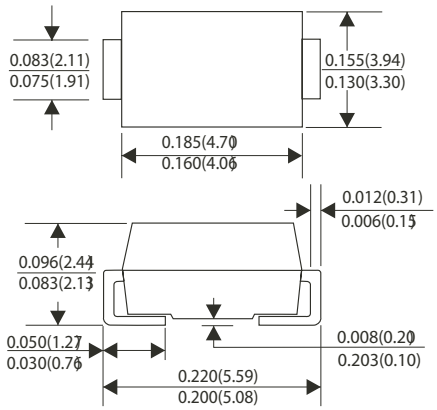
Features

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

Mechanical Data

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

SMB/DO-214AA



Dimensions in inches and (millimeter)

Maximum Rating and Electrical Characteristics

Rating at 25ºC ambient temperature unless specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTIC	SYBMOL	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 Curevs (CDBB220-G Thru CDBB2100-G)

Fig. 1 - Reverse Characteristics

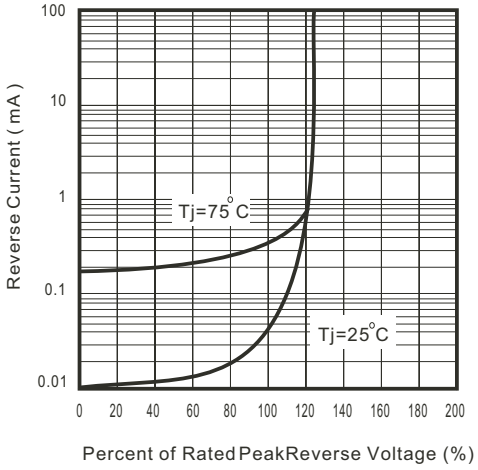


Fig.2 - Forward Characteristics

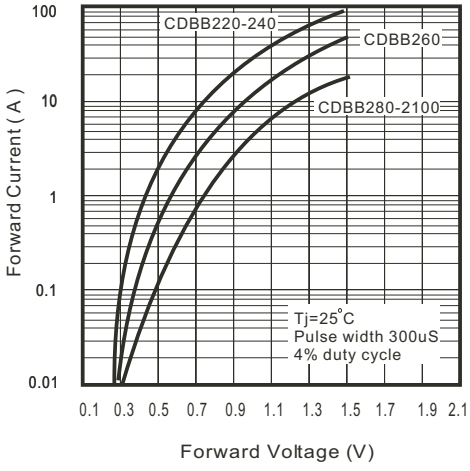


Fig. 3 - Junction Capacitance

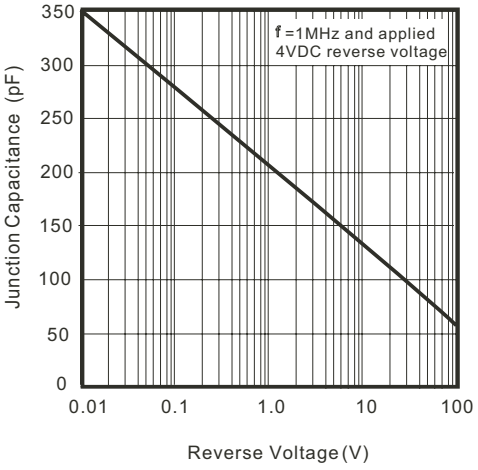


Fig. 4 - Current Derating Curve

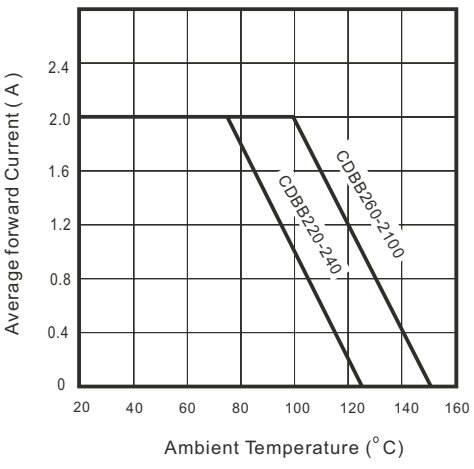


Fig. 5 - Non Repetitive Forward Surge Current