

# SMD Schottky Barrier Rectifiers



## CDBB120-G Thru CDBB1100-G

Reverse Voltage: 20 - 100 Volts  
 Forward Current: 1.0 Amp  
 RoHS Device

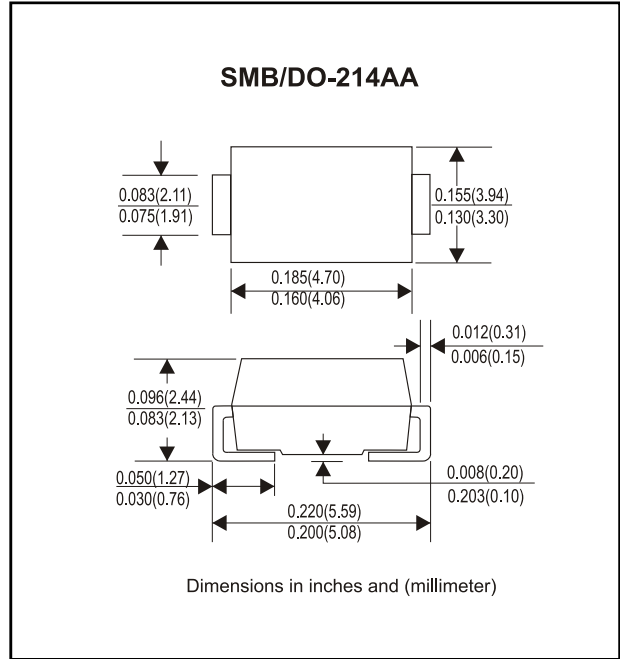


### Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Built-in strain relief
- Low forward voltage drop

### Mechanical Data

- Case: JEDEC DO-214AA molded plastic
- Terminals: solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.093 gram



### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBB120-G	CDBB140-G	CDBB160-G	CDBB180-G	CDBB1100-G	Unit	
Max. Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	80	100	V	
Max. DC Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	V	
Max. RMS Voltage	V <sub>RMS</sub>	14	28	42	56	70	V	
Peak Surge Forward Current 8.3ms single half sine-wave superimposed on rate load ( JEDEC method )	I <sub>FSM</sub>	30						A
Max. Average Forward Current	I <sub>o</sub>	1.0						A
Max. Instantaneous Forward Current at 1.0 A	V <sub>F</sub>	0.50		0.70		0.85	V	
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C	I <sub>R</sub>	0.5						mA
		10						
Max. Thermal Resistance (Note 1)	R <sub>θJA</sub>	75						°C/W
	R <sub>θJL</sub>	17						
Max. Operating Junction Temperature	T <sub>j</sub>	125						°C
Storage Temperature	T <sub>STG</sub>	-65 to +150						°C

Note 1: Thermal resistance from junction to ambient and junction to to lead P.C.B. Mounted on 0.2 x 0.2 inch<sup>2</sup> copper pad areas

## Rating and Characteristic Curves (CDBB120-G Thru CDBB1100-G)

Fig. 1 - Reverse Characteristics

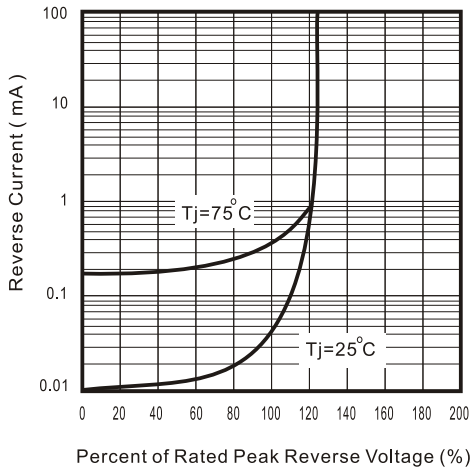


Fig.2 - Forward Characteristics

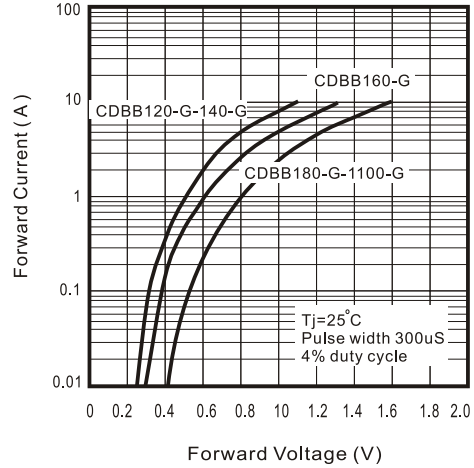


Fig. 3 - Junction Capacitance

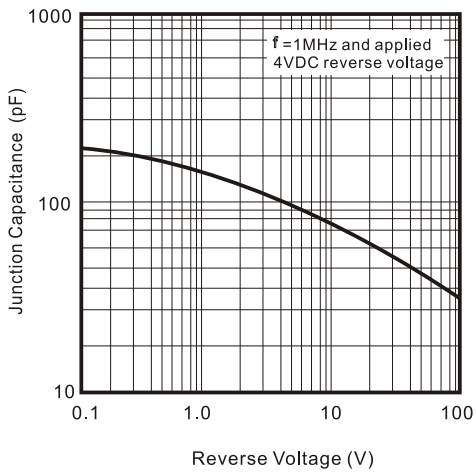


Fig. 4 - Current Derating Curve

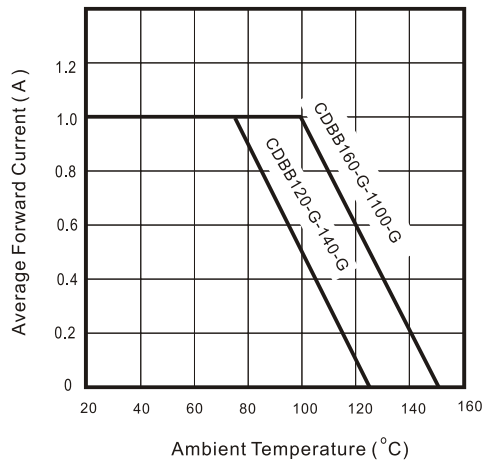


Fig. 5 - Non repetitive forward surge current

