

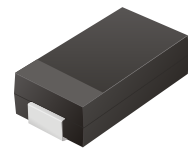
# SMD Schottky Barrier Rectifiers

## CDBB320-G Thru. CDBB3100-G

Reverse Voltage: 20 to 100 Volts

Forward Current: 3.0 Amp

RoHS Device

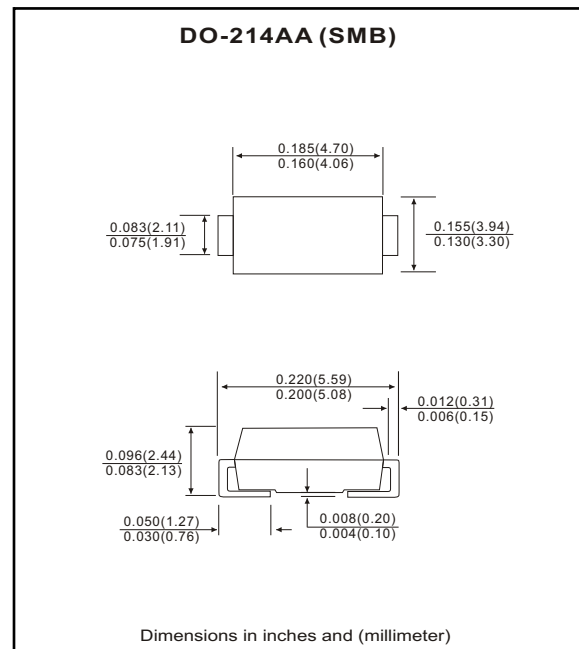


### Features

- 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 grams



### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBB 320-G	CDBB 340-G	CDBB 360-G	CDBB 380-G	CDBB 3100-G	Units
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>	80					A
Max. average forward current	I <sub>O</sub>	3.0					A
Max. instantaneous forward voltage at 3.0A	V <sub>F</sub>	0.50		0.70	0.85		V
Max. DC reverse current at T <sub>A</sub> =25°C rated DC blocking voltage T <sub>A</sub> =100°C	I <sub>R</sub>	0.5					mA
		20			10		
Max. thermal resistance (Note 1)	R <sub>θJA</sub> R <sub>θJL</sub>	50 10					°C/W
Max. operating junction temperature	T <sub>J</sub>	125					°C
Storage temperature	T <sub>STG</sub>	-65 to +150					°C

Notes: 1. Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 0.2×0.2 inch<sup>2</sup> copper pad area.

## RATING AND CHARACTERISTIC CURVES (CDBB320-G thru CDBB3100-G)

Fig.1 Reverse Characteristics

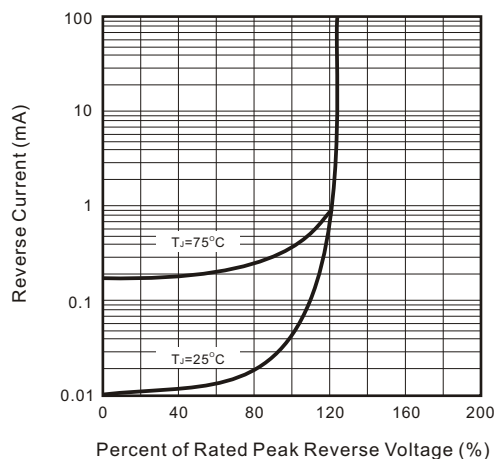


Fig.2 Forward Characteristics

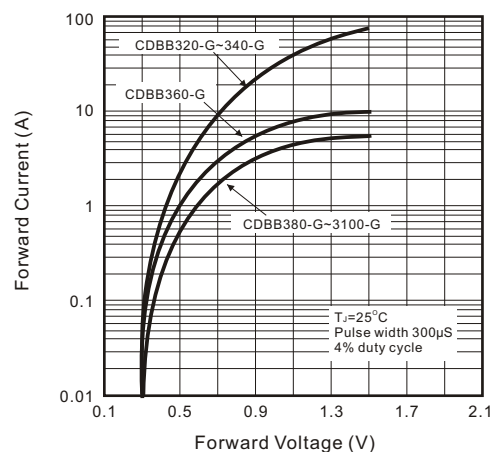


Fig.3 Junction Capacitance

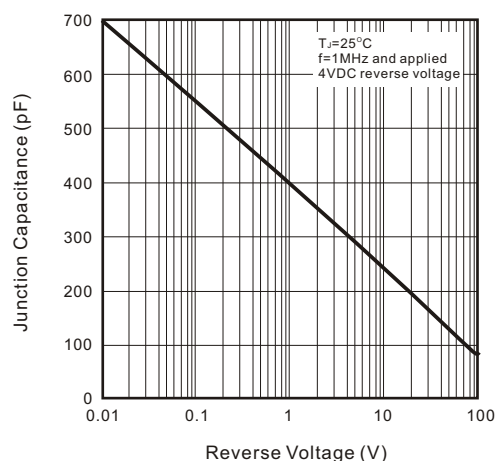


Fig.4 Current Derating Curve

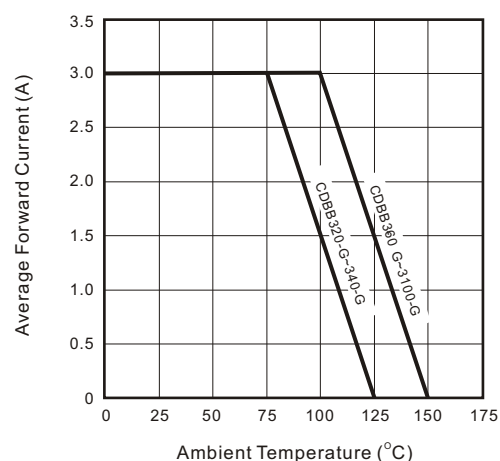
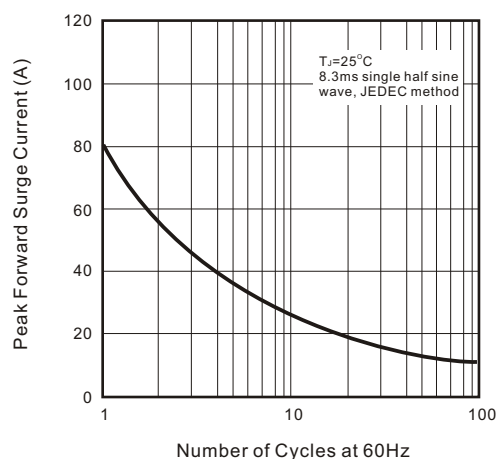


Fig.5 Non-repetitive Forward Surge Current



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