

# SMD Schottky Barrier Rectifiers



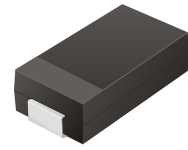
SMD Diodes Specialist

## CDBB320-G Thru. CDBB3100-G

Reverse Voltage: 20 to 100 Volts

Forward Current: 3.0 Amp

RoHS Device

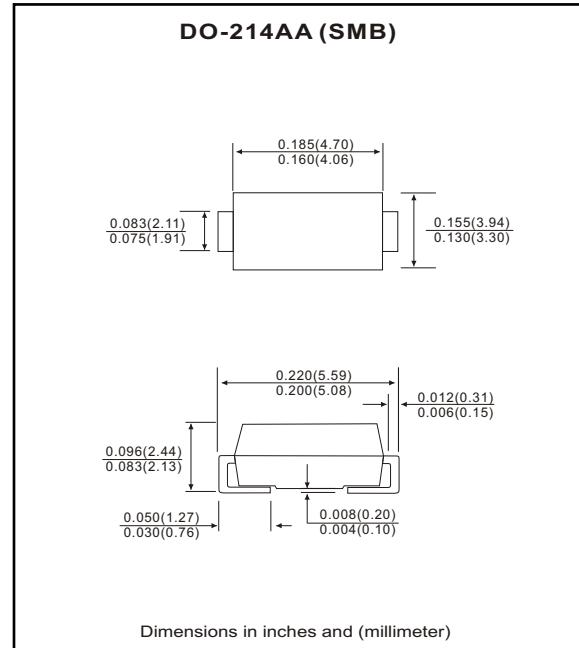


### Features

- 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	$V_{RRM}$	20	40	60	80	100	V
Max. DC blocking voltage	$V_{DC}$	20	40	60	80	100	V
Max. RMS voltage	$V_{RMS}$	14	28	42	56	70	V
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	80					A
Max. average forward current	$I_o$	3.0					A
Max. instantaneous forward voltage at 3.0A	$V_F$	0.50		0.70	0.85		V
Max. DC reverse current at $T_A=25^{\circ}C$ rated DC blocking voltage $T_A=100^{\circ}C$	$I_R$	0.5					mA
		20			10		
Max. thermal resistance (Note 1)	$R_{\theta JA}$	50					$^{\circ}C/W$
	$R_{\theta JL}$	10					
Max. operating junction temperature	$T_J$	125					$^{\circ}C$
Storage temperature	$T_{STG}$	-65 to +150					$^{\circ}C$

Notes: 1. Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 0.2x0.2 inch<sup>2</sup> copper pad area.

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

Fig.1 Reverse Characteristics

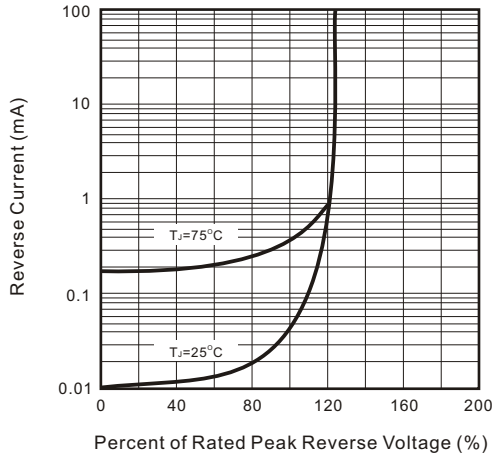


Fig.2 Forward Characteristics

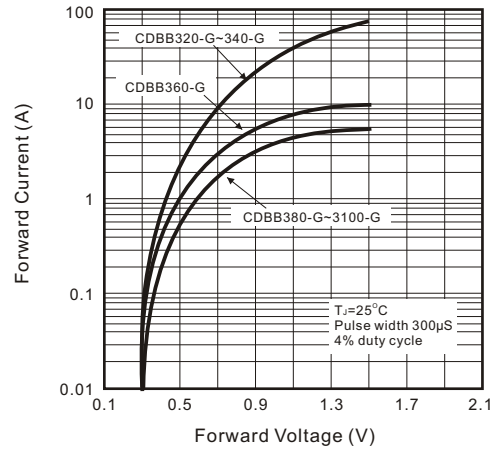


Fig.3 Junction Capacitance

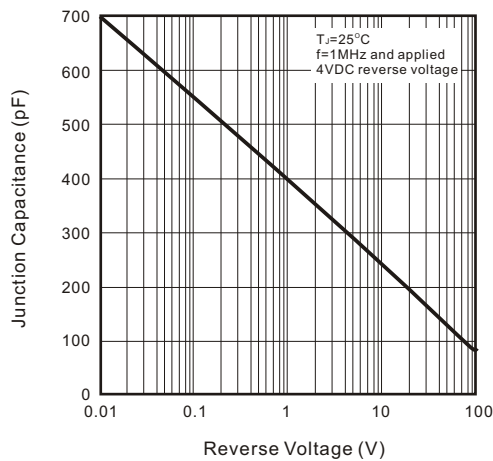


Fig.4 Current Derating Curve

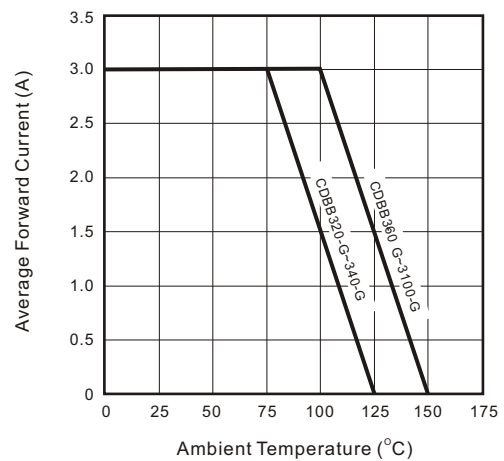


Fig.5 Non-repetitive Forward Surge Current

