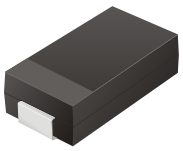
SMD Schottky Barrier Rectifiers

COMCHIP
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

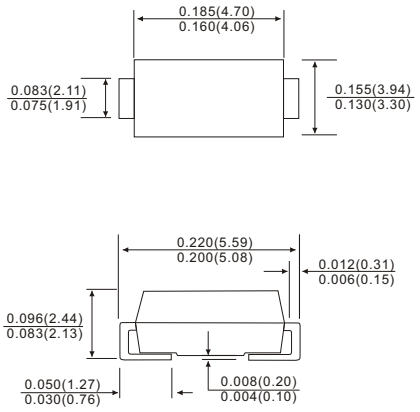
-Case: JEDEC DO-214AA, molded plastic.

-Terminals: solderable per MIL-STD-750, method 2026.

-Polarity: Color band denotes cathode end.

-Approx. weight: 0.093 grams

DO-214AA (SMB)



Dimensions in inches and (millimeter)

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°C	I_R	0.5					mA
rated DC blocking voltage T_A=100°C		20			10		
Max. thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	50 10					°C/W
Max. operating junction temperature	T_J	125					°C
Storage temperature	T_{STG}	-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^2 copper pad area.

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

Fig.1 Reverse Characteristics

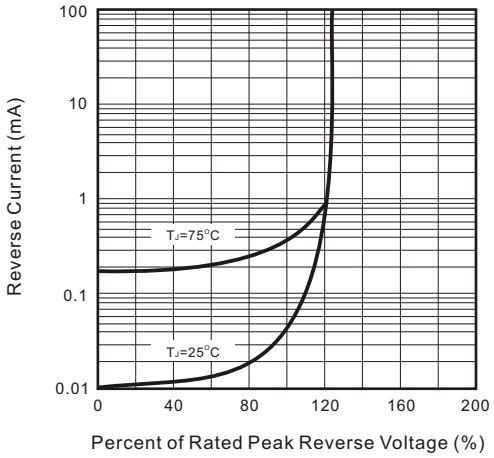


Fig.2 Forward Characteristics

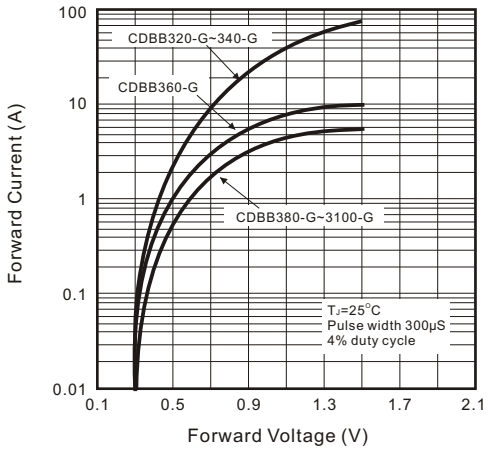


Fig.3 Junction Capacitance

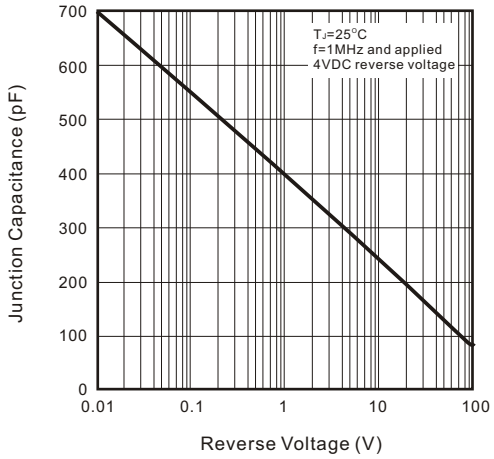


Fig.4 Current Derating Curve

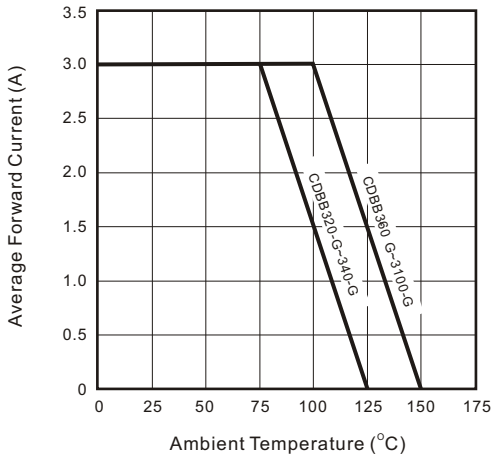


Fig.5 Non-repetitive Forward Surge Current