SMD Schottky Barrier Rectifier

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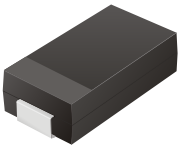
CDBB220 Thru CDBB2100

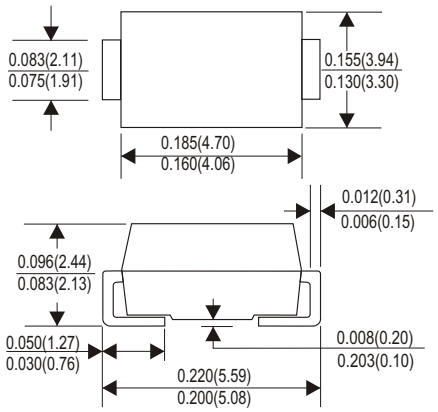
Reverse Voltage: 20 - 100 Volts
Forward Current: 2.0 Amp



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

SMB/DO-214AA



Dimensions in inches and (millimeter)

Mechanical Data

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

Maximum Ratings and Electrical Characterics

Parameter	Symbol	CDBB220	CDBB240	CDBB260	CDBB2100	Unit
Max.Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	100	V
Max. DC Blocking Voltage	V_{DC}	20	40	60	100	V
Max. RMS Voltage	V_{RMS}	14	28	42	70	V
Peak Surge Forward Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	50				A
Max. Average Forward Current	Io	2.0				A
Max. Instantaneous Forward Current at 2.0 A	V_F	0.50		0.70	0.85	V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C	I_R	0.5				mA
Ta=100°C		20			10	
Max. Thermal Resistance (Note 1)	$R\theta_{JA}$ $R\theta_{JL}$	75 17				°C/W
Operating Junction temperature	Tj	-50 to +125				°C
Storage Temperature	T_{STG}	-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 copper pad areas

Rating and Characteristic Curevs (CDBB220 Thru CDBB2100)

Fig. 1 - Reverse Characteristics

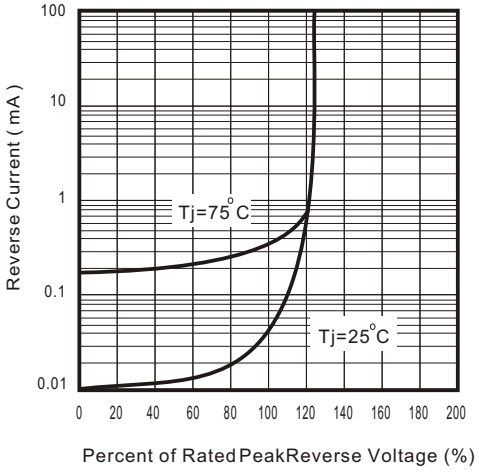


Fig.2 - Forward Characteristics

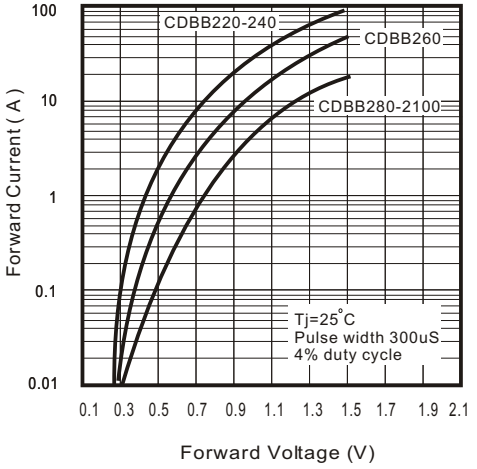


Fig. 3 - Junction Capacitance

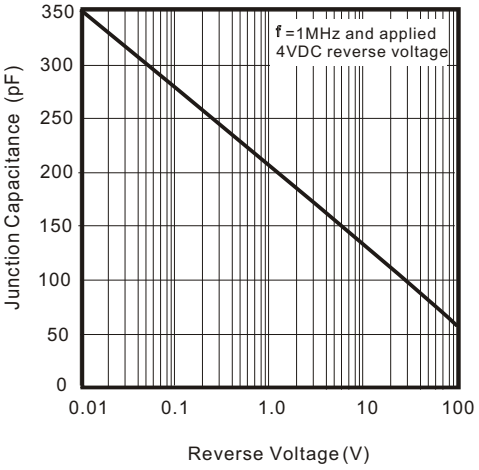


Fig. 4 - Current Derating Curve

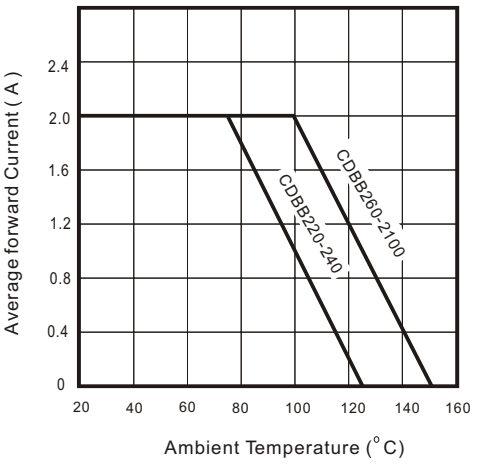


Fig. 5 - Non Repetitive Forward Surge Current