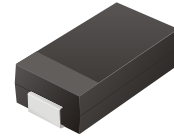


# SMD Schottky Barrier Rectifier

## CDBB320 Thru CDBB3100

Reverse Voltage: 20 - 100 Volts  
Forward Current: 3.0 Amp

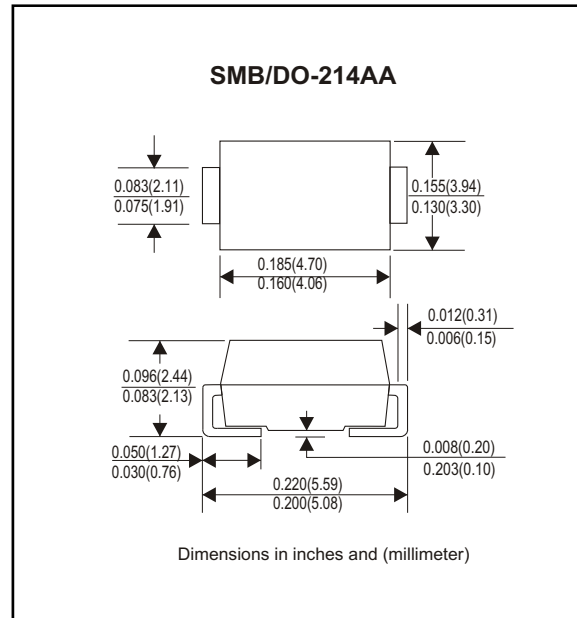


### Features

- 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

### 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 Characteristics

Parameter	Symbol	CDBB320	CDBB340	CDBB360	CDBB3100	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 halfsine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	80				A
Max. Average Forward Current	$I_o$	3.0				A
Max. Instantaneous Forward Current at 3.0 A	$V_F$	0.50		0.75	0.85	V
Max. DC Reverse Current at Rated DC Blocking Voltage $T_a=25^{\circ}C$ $T_a=100^{\circ}C$	$I_R$	0.5				mA
		20		10		
Max. Thermal Resistance (Note 1)	$R_{\theta JA}$	50				$^{\circ}C/W$
	$R_{\theta JL}$	10				
Operating Junction temperature	$T_j$	-50 to +125				$^{\circ}C$
Storage Temperature	$T_{STG}$	-65 to +150				$^{\circ}C$

Note 1: Thermal resistance from junction to ambient and junction to lead P.C.B. Mounted on 0.2 x 0.2 copper pad areas

## Rating and Characteristic Curves (CDBB320 Thru CDBB3100)

Fig. 1 - Reverse Characteristics

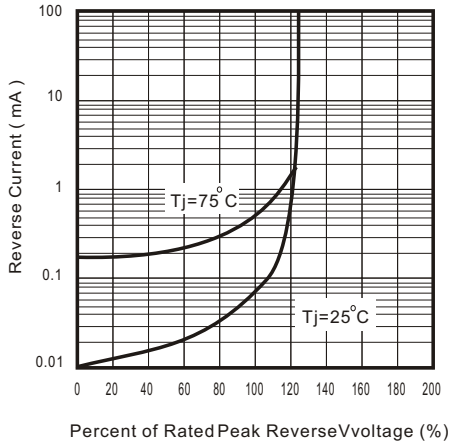


Fig. 2 - Forward Characteristics

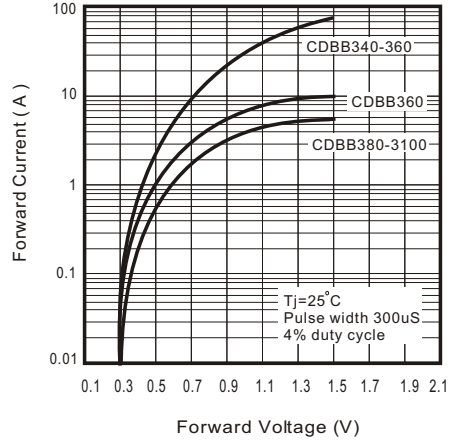


Fig. 3 - Junction Capacitance

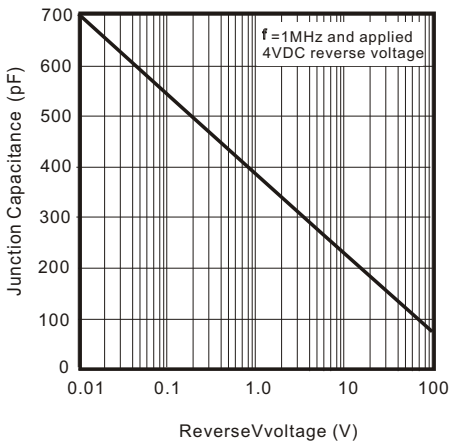


Fig. 4 - Current Derating Curve

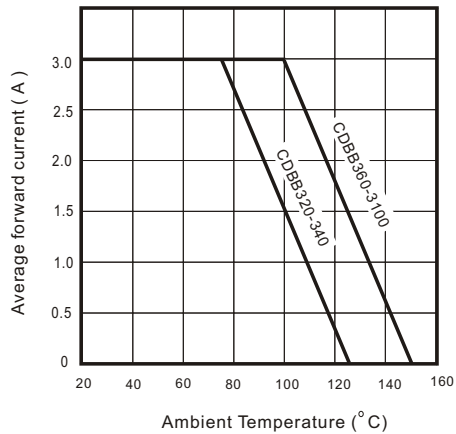


Fig. 5 - Non Repetitive Forward Surge Current

