

CDBB120 Thru CDBB1100

Reverse Voltage: 20 - 100 Volts

Forward Current: 1.0 Amp

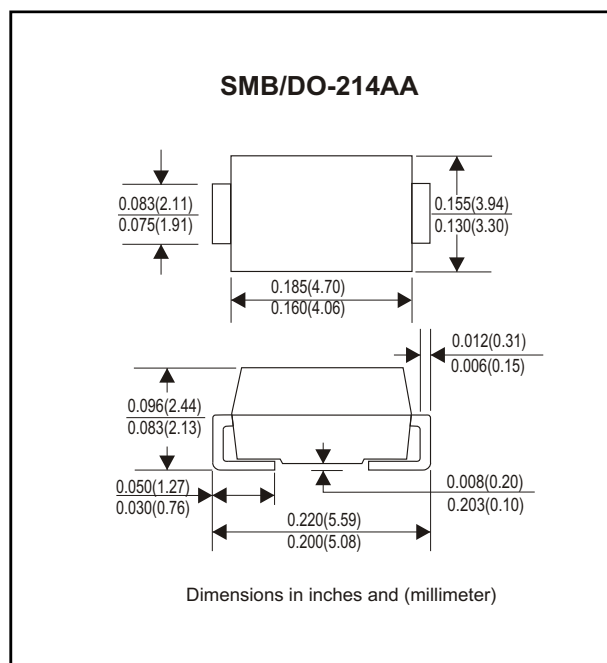


Features

- 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	CDBB120	CDBB140	CDBB160	CDBB180	CDBB1100	Unit
Max. Repetitive PeakReverse Voltage	VRRM	20	40	60	80	100	V
Max. DC BlockingVoltage	VDC	20	40	60	80	100	V
Max. RMS Voltage	VRMS	14	28	42	56	70	V
Peak Surge ForwardCurrent 8.3ms single halfsine-wave superimposed on rateload (JEDEC method)	IFSM	35					A
Max. Average Forward Current	I o	1.0					A
Max. Instantaneous Forward Current at 1.0 A	V F	0.50		0.70	0.85		V
Max. DC Reverse Current at RatedDC Blocking Voltage Ta=25°C Ta=100°C	I R	0.5					mA
		10			5		
Max. Thermal Resistance(Note 1)	RθJA	80					°C/W
	RθJL	20					
Operating Junction Temperature	T j	- 50 to +125					°C
Storage Temperature	TSTG	- 65 to +150					°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 (CDBB120 Thru CDBB1100)

Fig. 1 - Reverse Characteristics

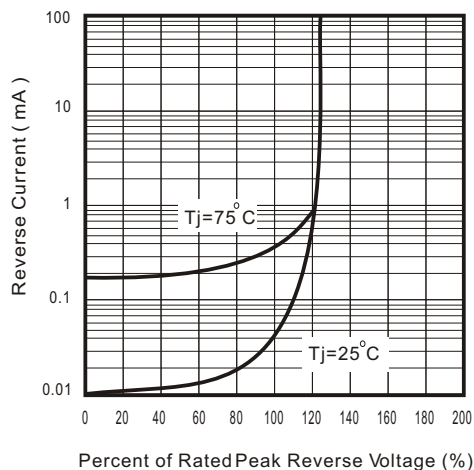


Fig.2 - Forward Characteristics

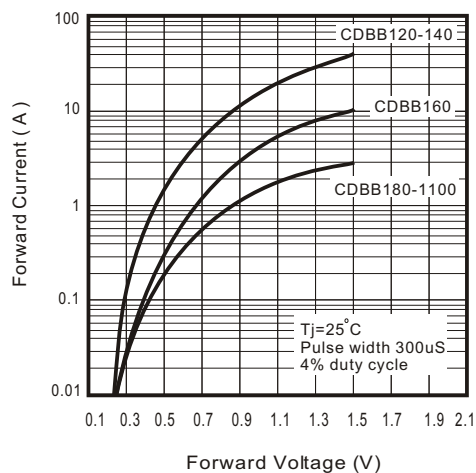


Fig. 3 - Junction Capacitance

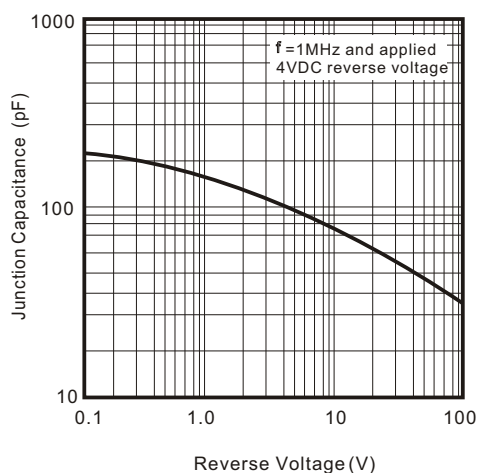


Fig. 4 - Current Derating Curve

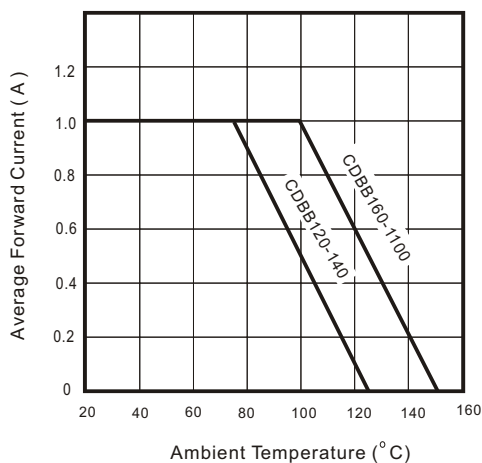


Fig. 5 - Non repetitive forward surge current

