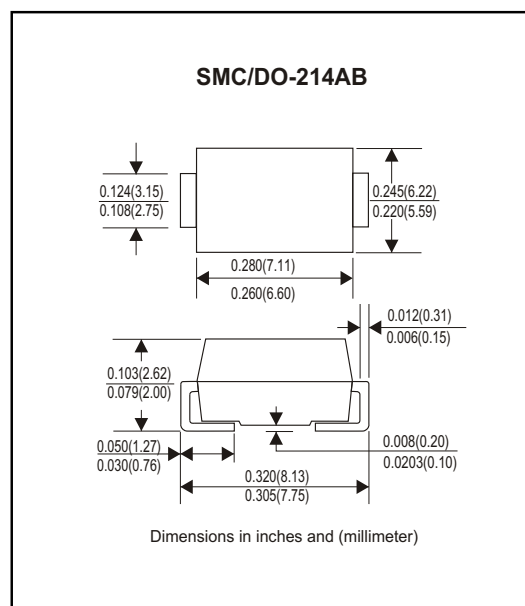


Forward Current: 5.0 Amp

- 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

Case: JEDEC DO-214AB molded plastic
Terminals: solderable per MIL-STD-750,
method 2026
Polarity: Color band denotes cathode
end
Mounting position: Any
Approx. Weight: 0.21 gram



Parameter	Symbol	CDBC520	CDBC540	CDBC560	CDBC5100	Unit
Max.Repetitive Peak Reverse Voltage	VRRM	20	40	60	100	V
Max. DC Blocking Voltage	VDC	20	40	60	100	V
Max. RMS Voltage	VRMS	14	28	42	70	V
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rate load (JEDEC method)	IFSM	100				A
Max. Average Forward Current	Io	5.0				A
Max. Instantaneous Forward Current at 5.0 A	VF	0.55		0.70	0.85	V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C	IR	1.0				mA
Ta=100°C		20			10	
Max. Thermal Resistance (Note 1)	RθJA RθJL	50 10				°C/W
Operating Junction temperature	Tj	-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 (CDBC520 Thru CDBC5100)

Fig. 1 - Reverse Characteristics

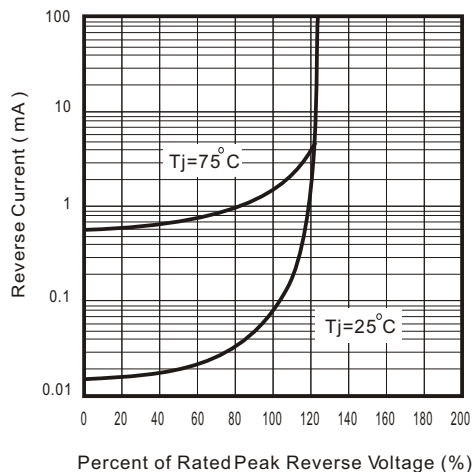


Fig.2 - Forward Characteristics

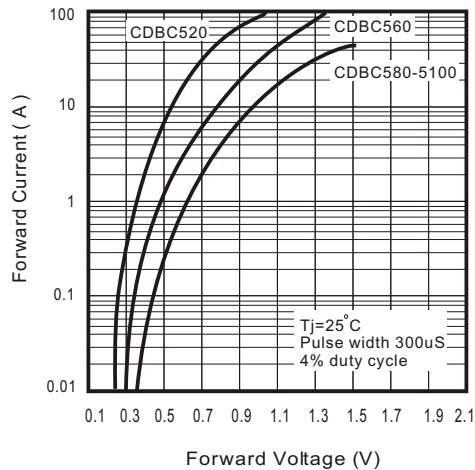


Fig. 3 - Junction Capacitance

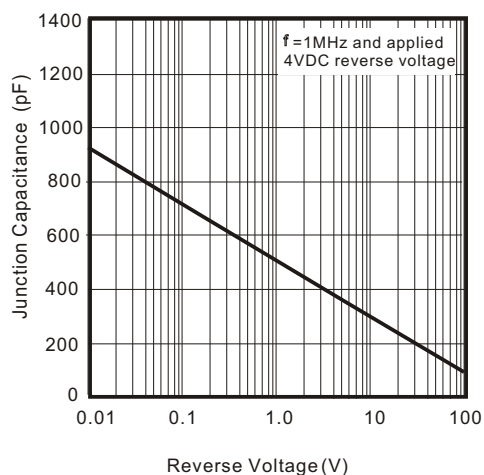


Fig. 4 - Current Derating Curve

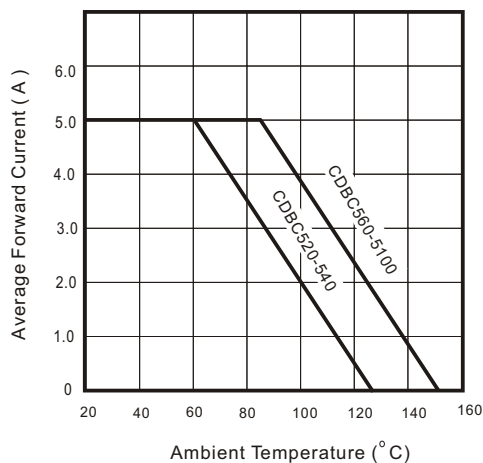


Fig. 5 - Non Repetitive Forward Surge Current

