

**VOLTAGE RANGE: 20 - 100V**  
**CURRENT: 5.0 A**

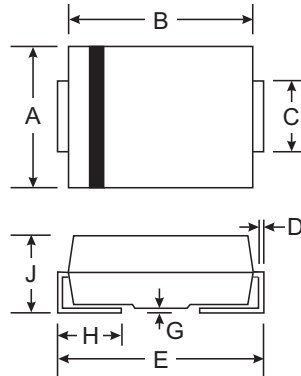
### Features

- 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: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)



SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.18
D	0.15	0.31
E	7.75	8.13
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	CDBC520	CDBC540	CDBC560	CDBC5100	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)	$I_{FSM}$	100				A
Max. Average Forward Current	$I_o$	5.0				A
Max. Instantaneous Forward Current at 5.0 A	$V_F$	0.55		0.70	0.85	V
Max. DC Reverse Current at Rated DC Blocking Voltage $T_a=25^\circ\text{C}$	$I_R$	1.0				mA
$T_a=100^\circ\text{C}$		20		10		
Max. Thermal Resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	50 10				$^\circ\text{C/W}$
Operating Junction temperature	$T_j$	-50 to +125				$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-65 to +150				$^\circ\text{C}$

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

Fig. 1 - Reverse Characteristics

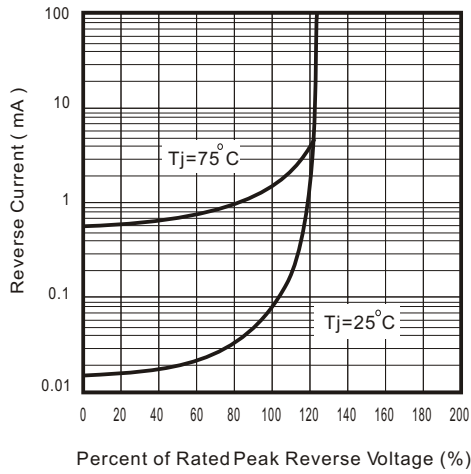


Fig.2 - Forward Characteristics

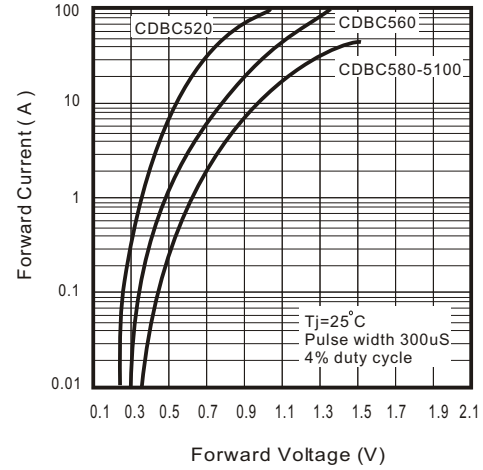


Fig. 3 - Junction Capacitance

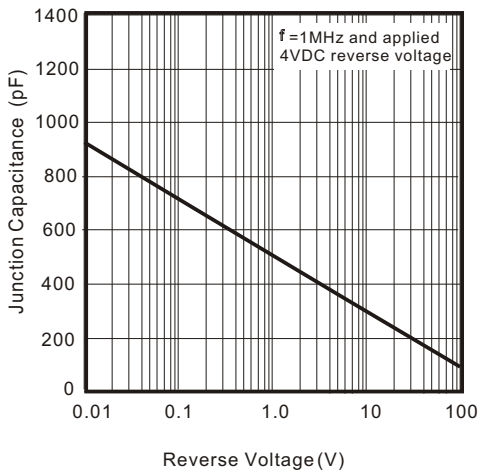


Fig. 4 - Current Derating Curve

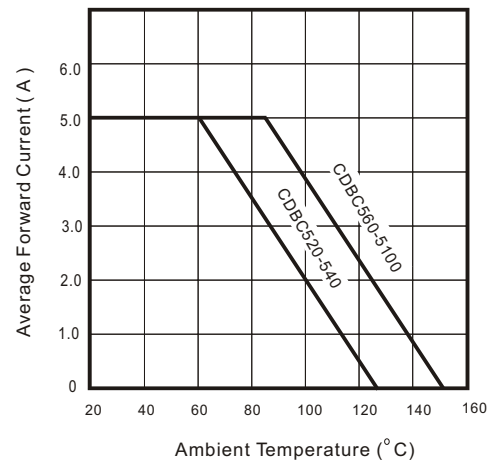


Fig. 5 - Non Repetitive Forward Surge Current

