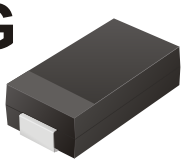
Low V_F SMD Schottky Barrier Rectifiers

COMCHIP
SMD Diodes Specialist

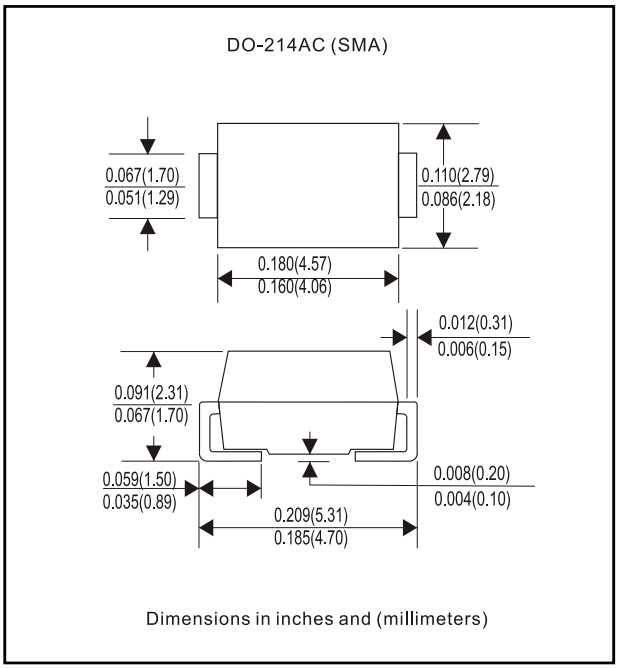
CDBA220L-G Thru CDBA240LL-G



Reverse Voltage: 20 - 40 Volts
Forward Current: 2.0 Amp
RoHS Device

Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Built-in strain relief
- Super Low forward voltage drop



Mechanical Data

- Case: JEDEC DO-214AC molded plastic
- Terminals: solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight:0.063 gram

Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBA220L-G	CDBA220LL-G	CDBA240L-G	CDBA240LL-G	Unit
Max. Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	V
Max. DC Blocking Voltage	V_{DC}	20	40	60	80	V
Max. RMS Voltage	V_{RMS}	14	28	42	56	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	I_o	2.0				A
Max. Instantaneous Forward Current at 2.0 A	V_F	0.38	0.34	0.40	0.36	V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C	I_R	1.0				mA
Ta=80 °C		40				
Max. Thermal Resistance (Note 1)	$R_{\theta JA}$	75				°C/W
	$R_{\theta JL}$	17				
Max. Operating Junction Temperature	T_j	125				°C
Storage Temperature	T_{STG}	-50 to +125				°C

Note 1: Thermal resistance from junction to ambient and junction to to lead P.C.B. Mounted on 0.2 x 0.2 inch^2 copper pad areas

Rating and Characteristic Curevs (CDBA220L-G Thru CDBA240LL-G)

Fig. 1 - Reverse Characteristics

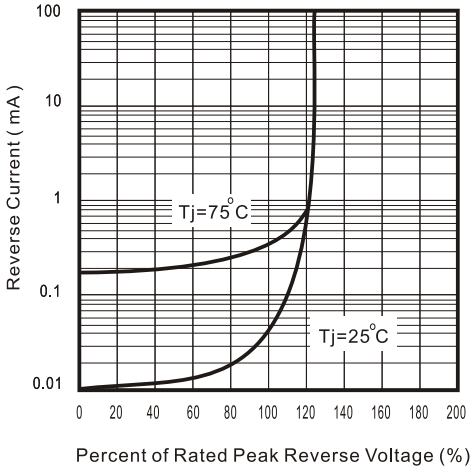


Fig.2 - Forward Characteristics

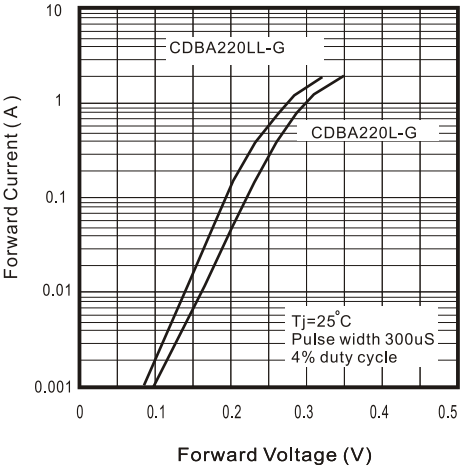


Fig. 3 - Junction Capacitance

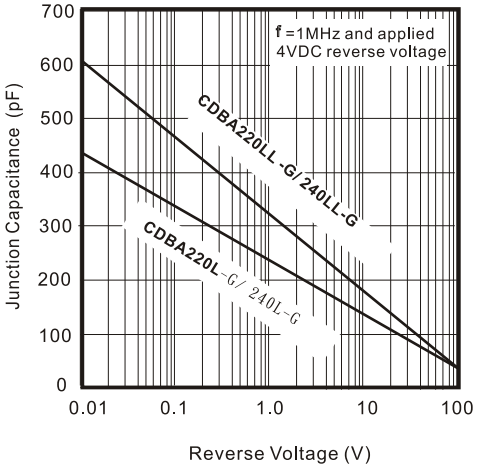


Fig.4 - Forward Characteristics

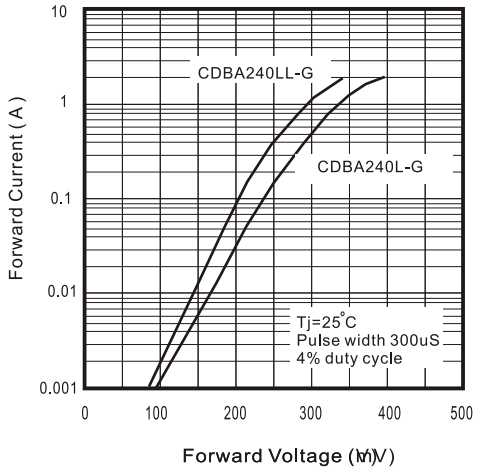


Fig. 5 - Non Repetitive Forward Surge Current

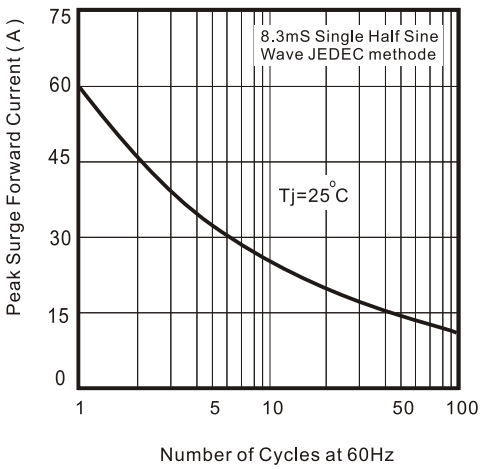


Fig. 6 - Current Derating Curve