SMD Schottky Barrier Rectifier

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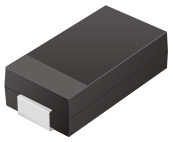
CDBA120L thru CDBA140SL

Voltage: 20V - 40V
Forward Current: 1.0 Amp



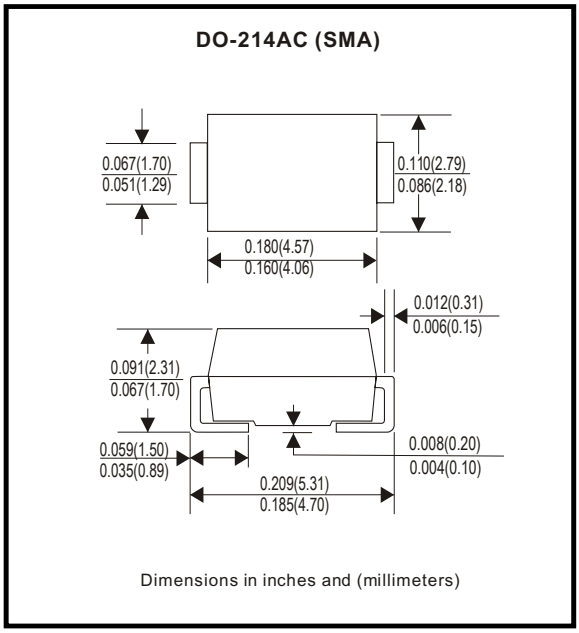
Features

Ideal for surface mount applications

Easy pick and place

Built-in strain relief

Super low forward voltage drop



Mechanical Data

Case: Molded plastic
Epoxy: UL 94-0 rate flame retardant
Metallurgically bonded construction
Polarity: Color band denotes cathode end
Mounting position: Any
Weight: 0.063g

Maxium Ratings and Electrical Characteristics

Rating 25 ambient temperature unless otherwise specified
Single phase half wave, 60Hz, resistive or include load.
For capacitive load, derate current by 20%

TYPE NUMBER	CDBA120L	CDBA120LL	CDBA120SL	CDBA140L	CDBA140LL	CDBA140SL	UNITS
Maximum Recurrent Peak Reverse Voltage	20	20	20	40	40	40	V
Maximum RMS Voltage	14	14	14	28	28	28	V
Maximum DC Blocking Voltage	20	20	20	40	40	40	V
Maximum Average Forward Rectified Current	1.0						A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	35						A
Maximum Instantaneous Forward Voltage at 1.0A	0.4	0.37	0.31	0.38	0.34	0.31	V
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 80°C	1.0 40						mA
Operating Temperature Range T_J	-25 to +80						°C
Storage Temperature Range T_{STG}	-50 to +125						°C

RATING AND CHARACTERISTIC CURVES (CDBA120L THRU CDBA140SL)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

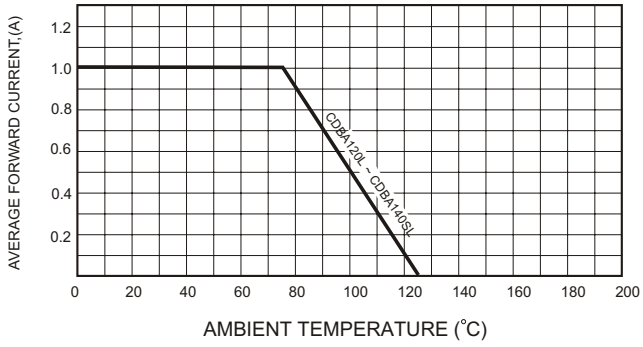


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

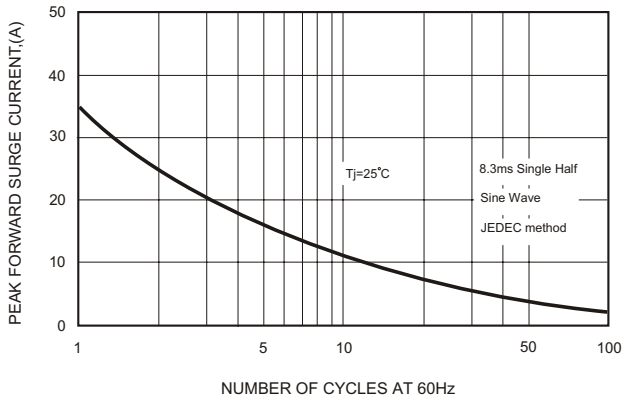


FIG.3-TYPICAL JUNCTION CAPACITANCE

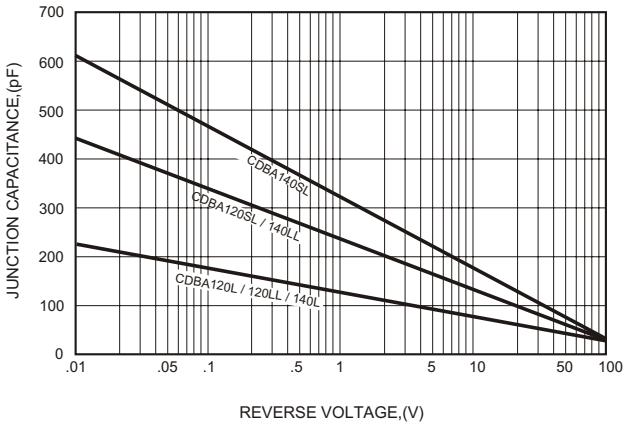
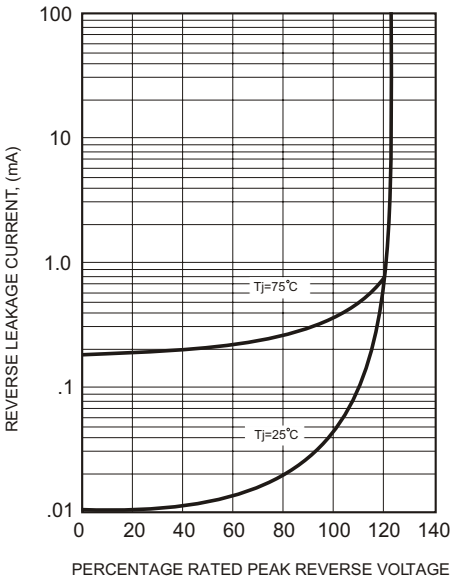


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



CDBA120L thru CDBA140SL

FIG. 5 (For CDBA120L)

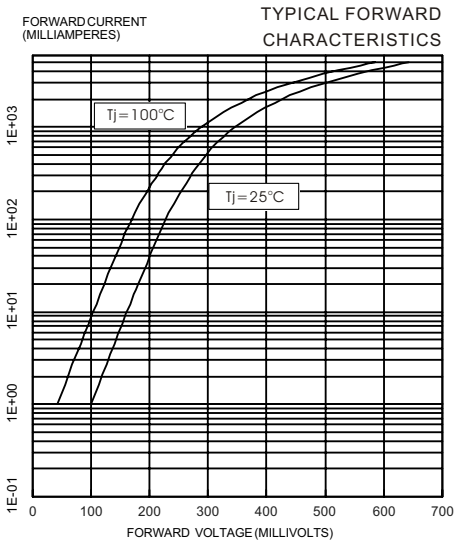


FIG. 6 (For CDBA120LL)

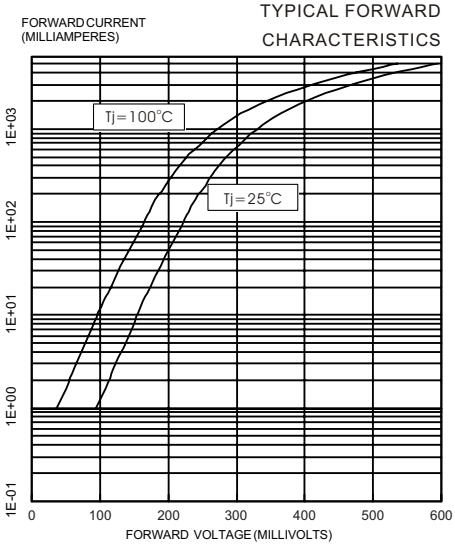


FIG. 7 (For CDBA120SL)

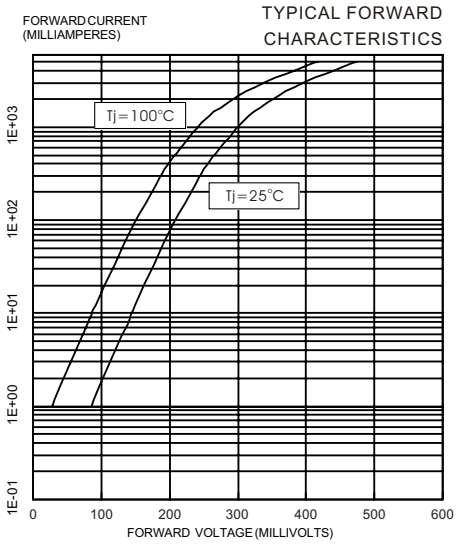
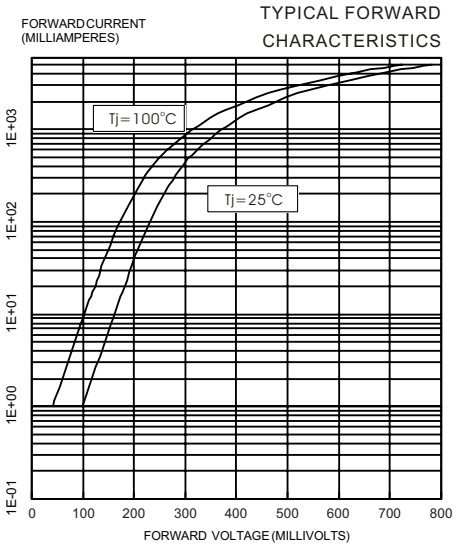


FIG. 8 (For CDBA140L)



CDBA120L thru CDBA140SL

FIG. 9 (For CDBA140LL)

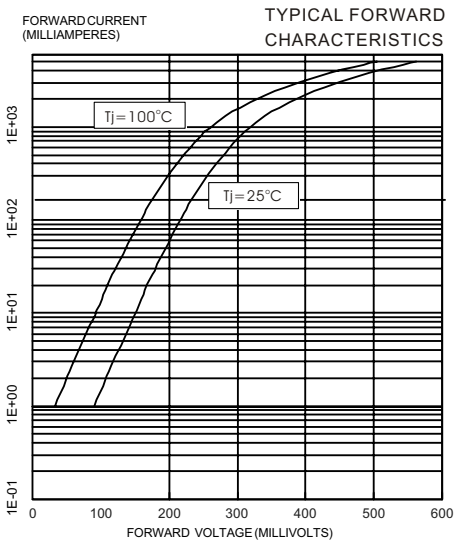


FIG. 10 (For CDBA140SL)

