

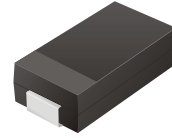


**THE DATASHEET OF  
CDBA120SL-G**



## CDBA120L thru CDBA140SL

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

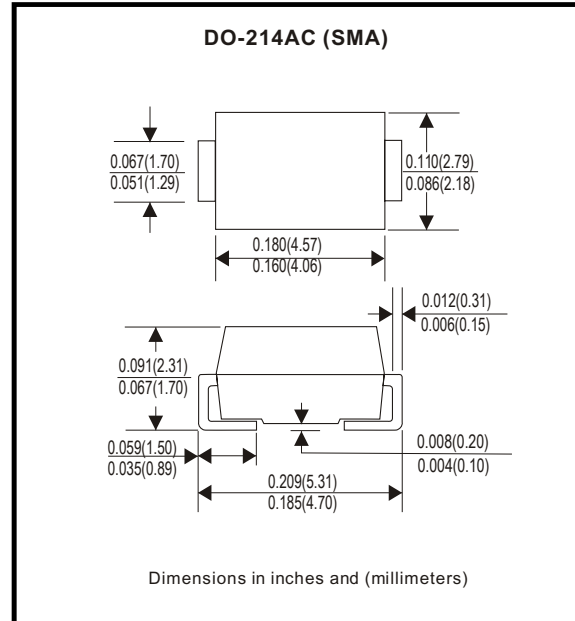


### Features

- 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 I 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 at Rated DC Blocking Voltage	1.0 40						mA
Operating Temperature Range T <sub>J</sub>	-25 to +80						°C
Storage Temperature Range T <sub>STG</sub>	-50 to +125						°C

## RATING AND CHARACTERISTIC CURVES (CDBA120L THRU CDBA140SL)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

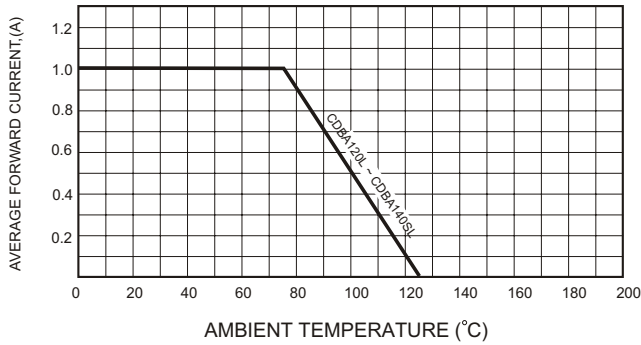


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

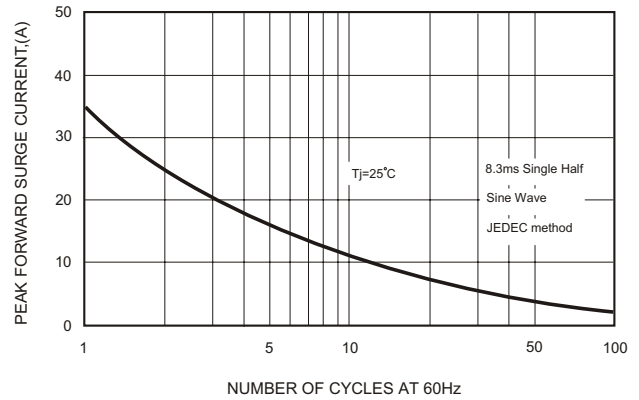


FIG.3-TYPICAL JUNCTION CAPACITANCE

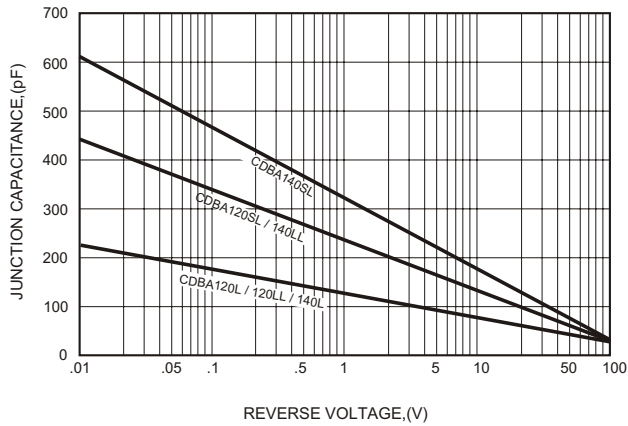
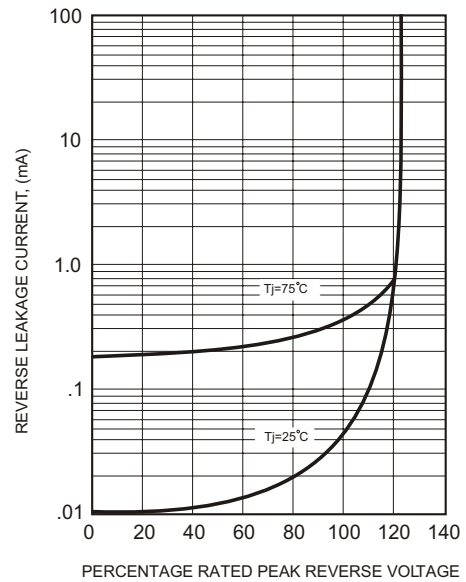


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



## CDBA120L thru CDBA140SL

FIG. 5 (For CDBA120L)

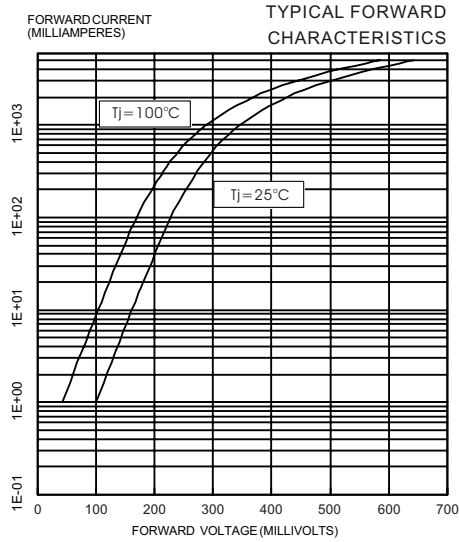


FIG. 6 (For CDBA120LL)

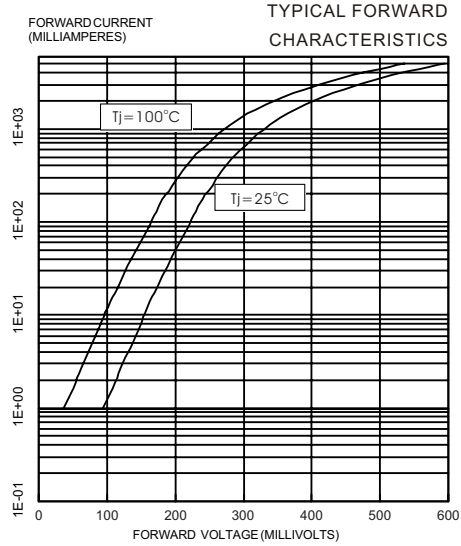


FIG. 7 (For CDBA120SL)

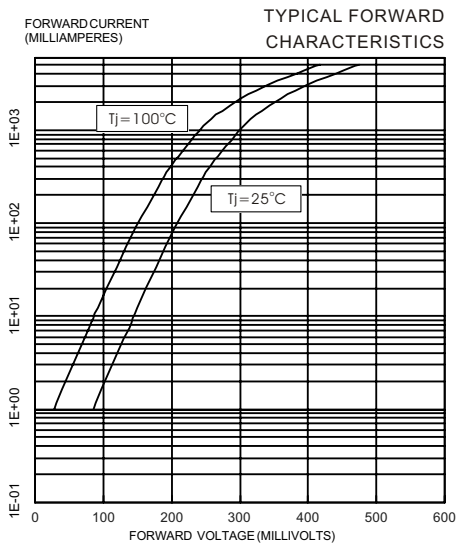
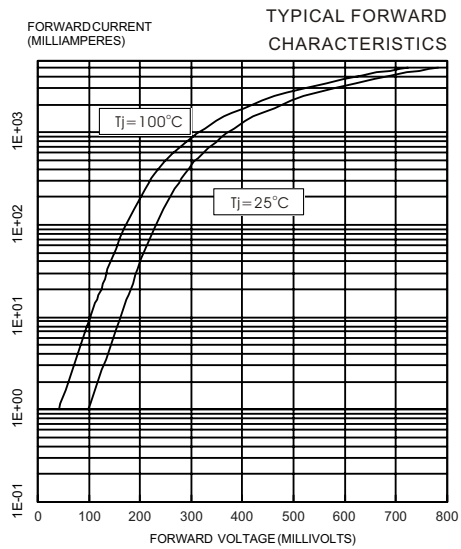


FIG. 8 (For CDBA140L)



## CDBA120L thru CDBA140SL

FIG. 9 (For CDBA140LL)

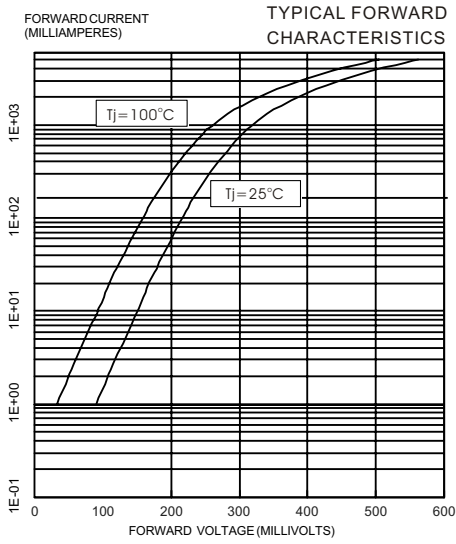
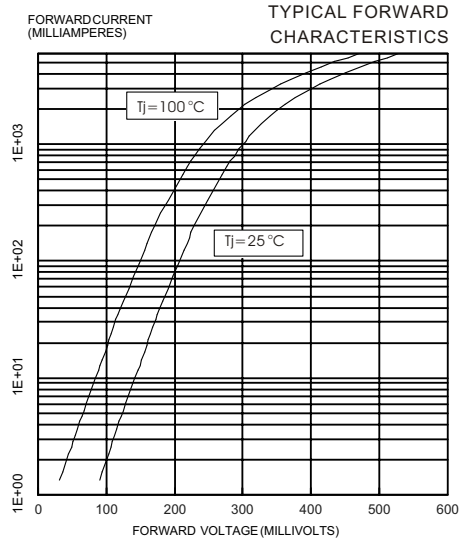


FIG. 10 (For CDBA140SL)



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