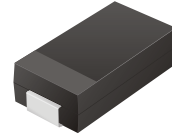


## CDBA120L thru CDBA140SL

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

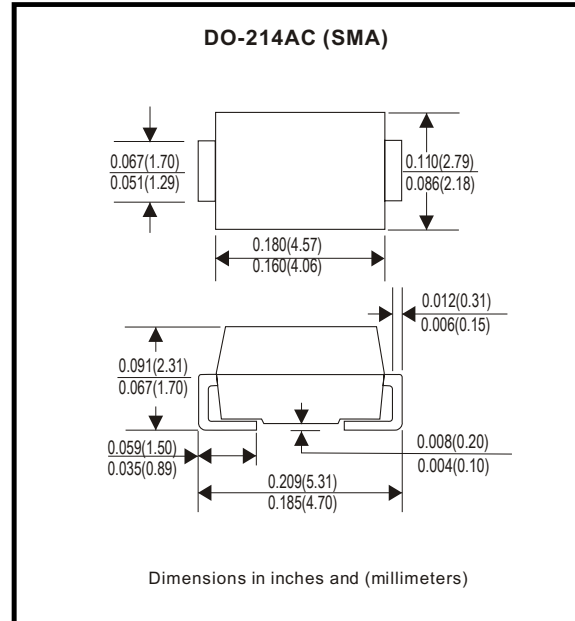


### Features

- 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<br>at Rated DC Blocking Voltage   | 1.0<br>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

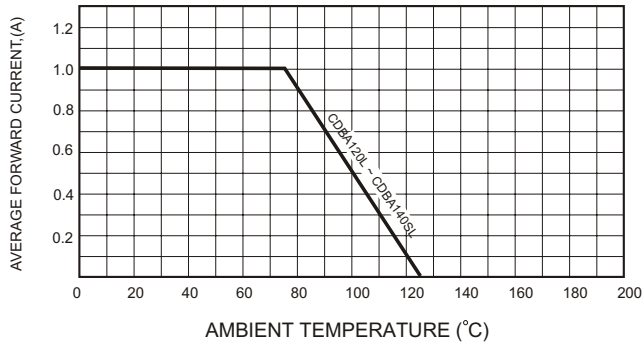


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

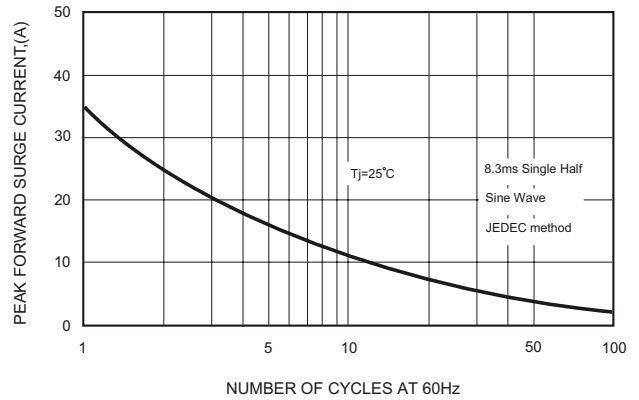


FIG.3-TYPICAL JUNCTION CAPACITANCE

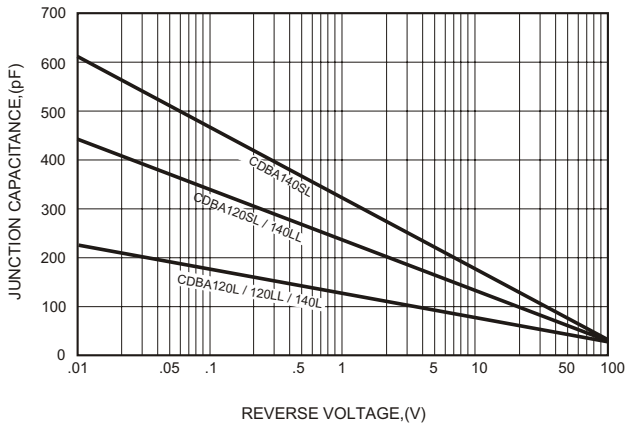
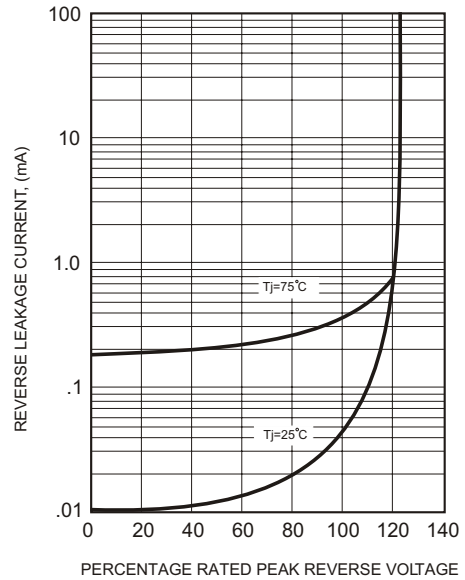


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



## CDBA120L thru CDBA140SL

FIG. 5 (For CDBA120L)

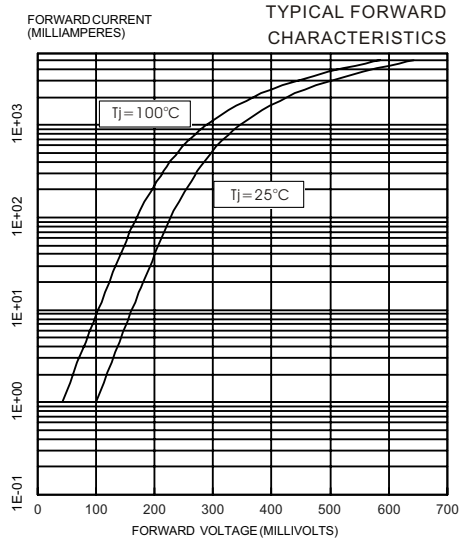


FIG. 6 (For CDBA120LL)

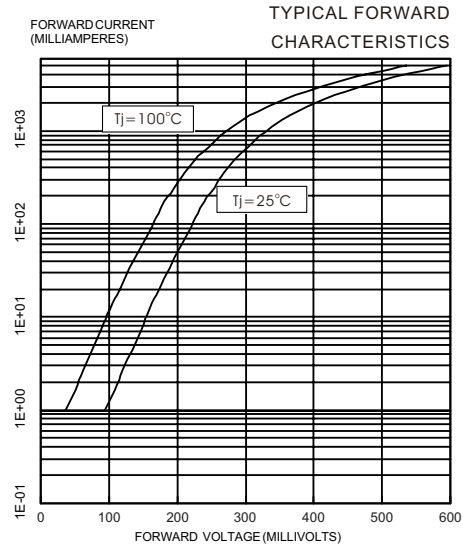


FIG. 7 (For CDBA120SL)

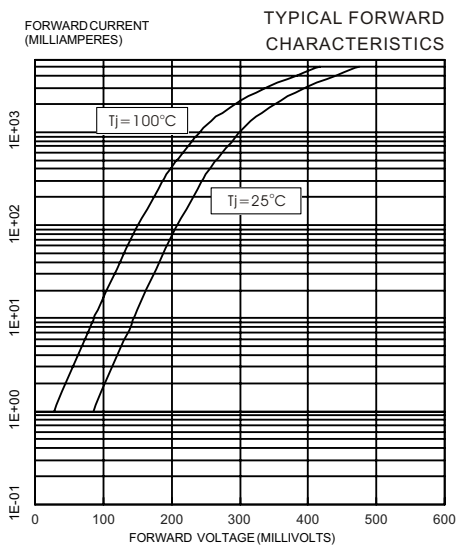
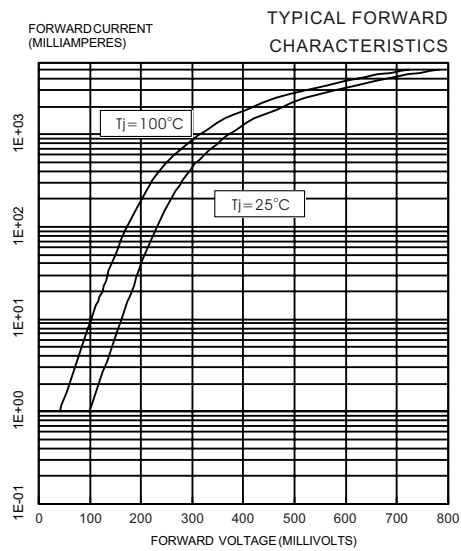


FIG. 8 (For CDBA140L)



## CDBA120L thru CDBA140SL

FIG. 9 (For CDBA140LL)

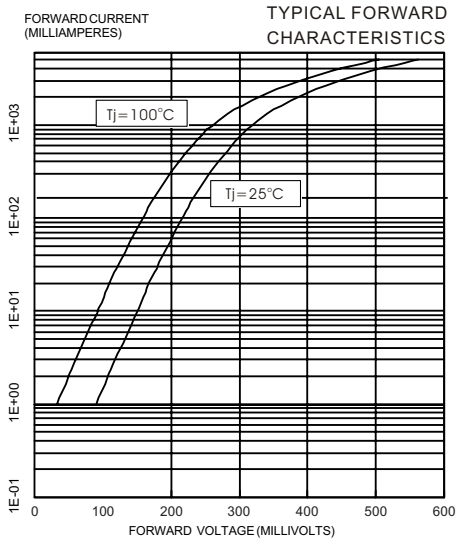


FIG. 10 (For CDBA140SL)

