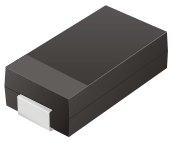
# SMD Schottky Barrier Rectifier

COMCHIP
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# CDBA120L thru CDBA140SL

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



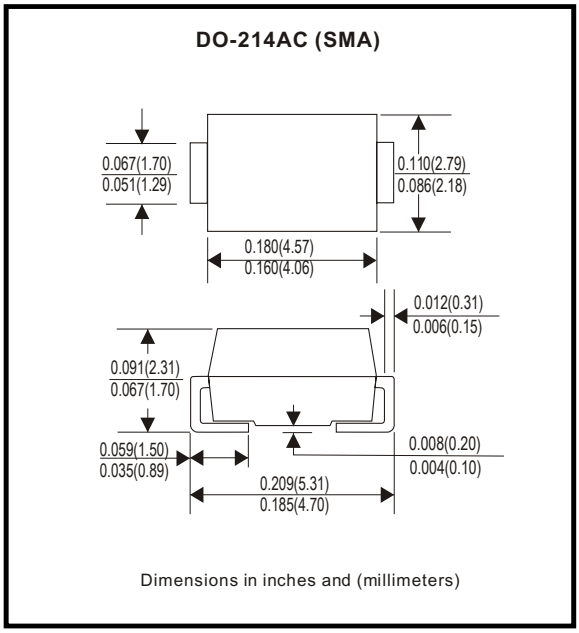
## Features

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<br>at Rated DC Blocking Voltage Ta = 80°C | 1.0<br>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

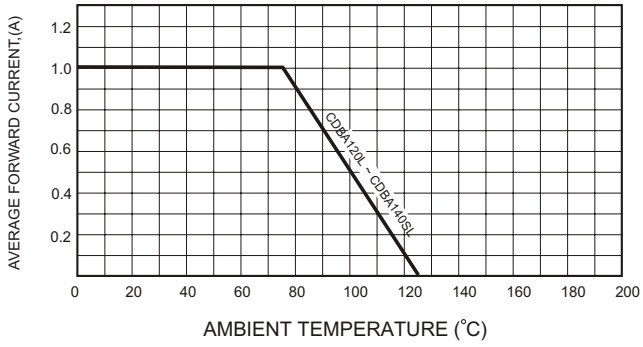



FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

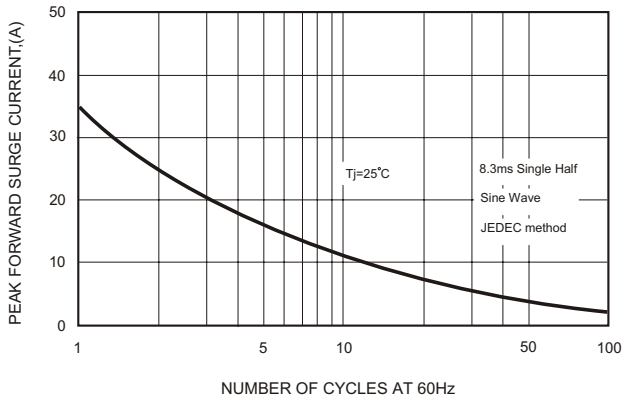



FIG.3-TYPICAL JUNCTION CAPACITANCE

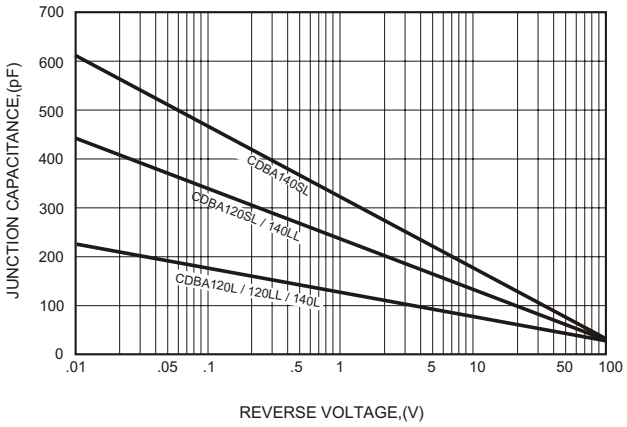
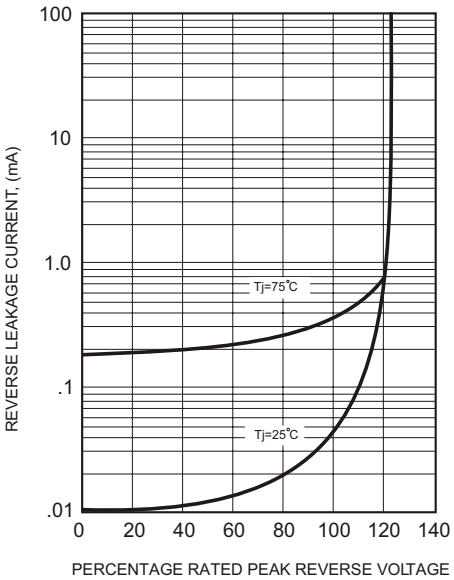



FIG.4 - TYPICAL REVERSE CHARACTERISTICS



## CDBA120L thru CDBA140SL

FIG. 5 (For CDBA120L)

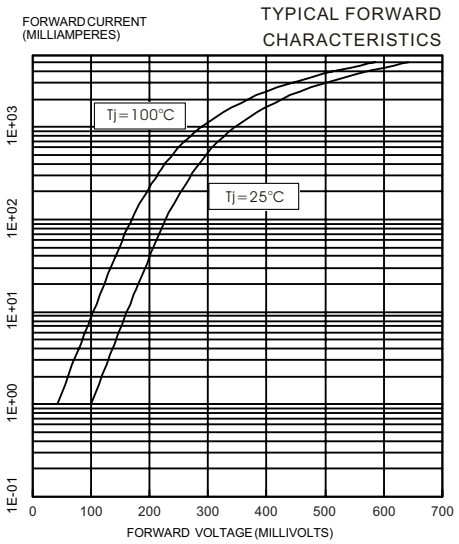



FIG. 6 (For CDBA120LL)

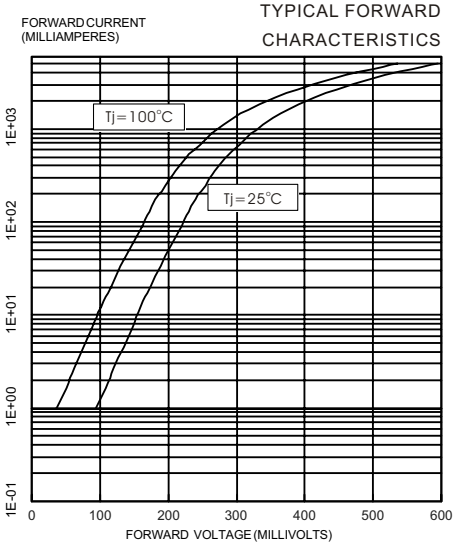



FIG. 7 (For CDBA120SL)

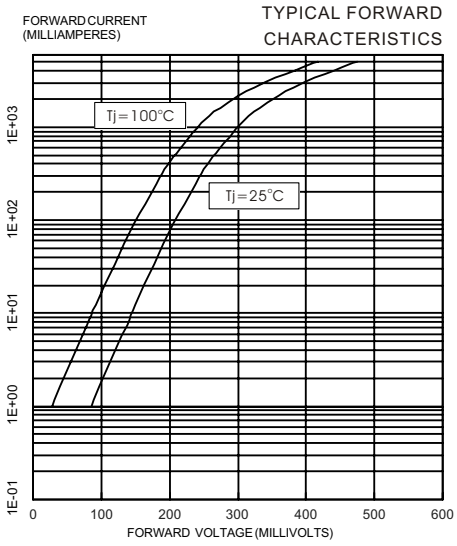
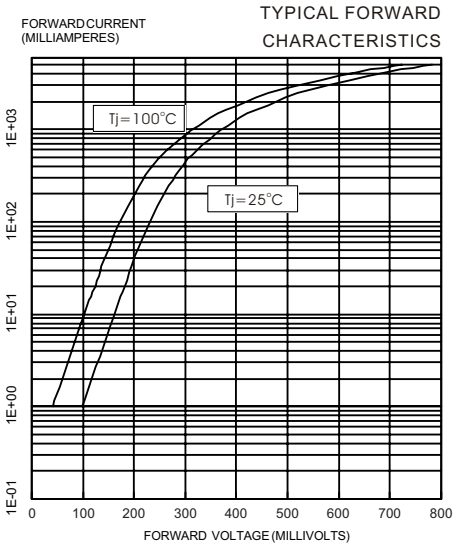



FIG. 8 (For CDBA140L)



## CDBA120L thru CDBA140SL

FIG. 9 (For CDBA140LL)

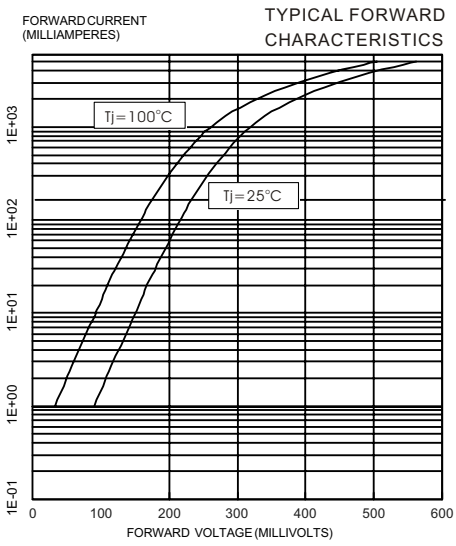



FIG. 10 (For CDBA140SL)

