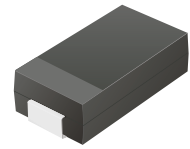


## CDBA120L-G Thru. CDBA140SL-G

Reverse Voltage: 20 to 40 Volts

Forward Current: 1.0 Amp

RoHS Device

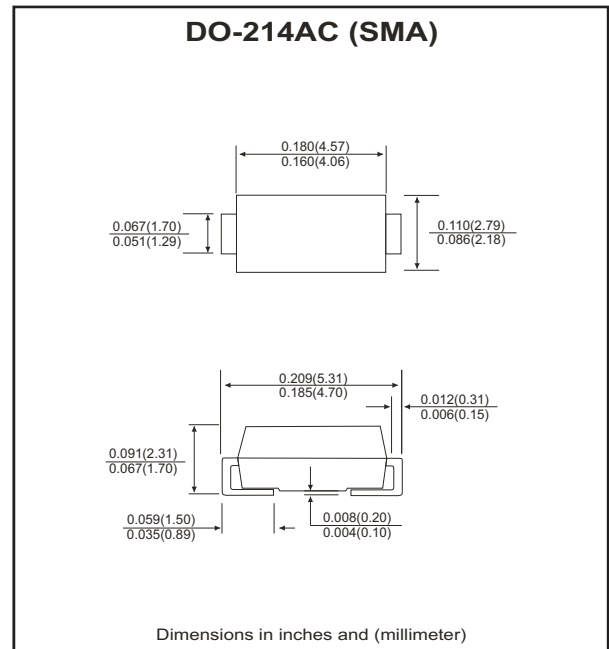


### Features

- 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 grams



### Maximum Ratings and Electrical Characteristics

Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Parameter                                                                                        | Symbol                             | CDBA 120L-G | CDBA 120LL-G | CDBA 140L-G | CDBA 140LL-G | CDBA 140SL-G | Units         |
|--------------------------------------------------------------------------------------------------|------------------------------------|-------------|--------------|-------------|--------------|--------------|---------------|
| Max. repetitive peak reverse voltage                                                             | $V_{RRM}$                          | 20          | 20           | 40          | 40           | 40           | V             |
| Max. DC blocking voltage                                                                         | $V_{DC}$                           | 20          | 20           | 40          | 40           | 40           | V             |
| Max. RMS voltage                                                                                 | $V_{RMS}$                          | 14          | 14           | 28          | 28           | 28           | V             |
| Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method) | $I_{FSM}$                          | 35          |              |             |              |              | A             |
| Max. average forward current                                                                     | $I_O$                              | 1.0         |              |             |              |              | A             |
| Max. instantaneous forward voltage at 1.0A                                                       | $V_F$                              | 0.38        | 0.31         | 0.40        | 0.34         | 0.31         | V             |
| Max. DC reverse current at $T_A=25^{\circ}C$ rated DC blocking voltage $T_A=80^{\circ}C$         | $I_R$                              | 1.0<br>40   |              |             |              |              | mA            |
| Max. thermal resistance (Note 1)                                                                 | $R_{\theta JA}$<br>$R_{\theta JL}$ | 88<br>20    |              |             |              |              | $^{\circ}C/W$ |
| Max. operating junction temperature                                                              | $T_J$                              | 125         |              |             |              |              | $^{\circ}C$   |
| Storage temperature                                                                              | $T_{STG}$                          | -55 to +125 |              |             |              |              | $^{\circ}C$   |

Notes: 1. Thermal resistance from junction to ambient and junction to lead, P.C.B. mounted on 0.2×0.2 inch copper pad area.

## RATING AND CHARACTERISTIC CURVES (CDBA120L-G thru CDBA140SL-G)

Fig.1 Reverse Characteristics

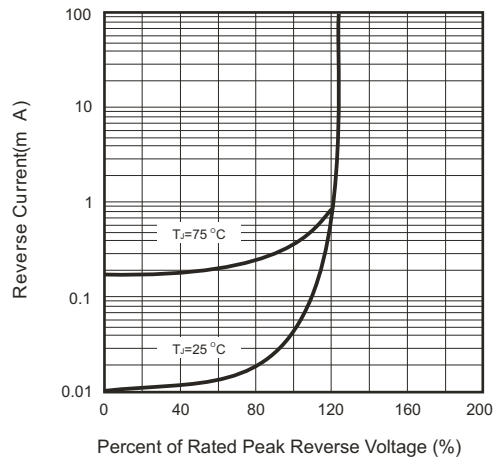


Fig.2 Forward Characteristics

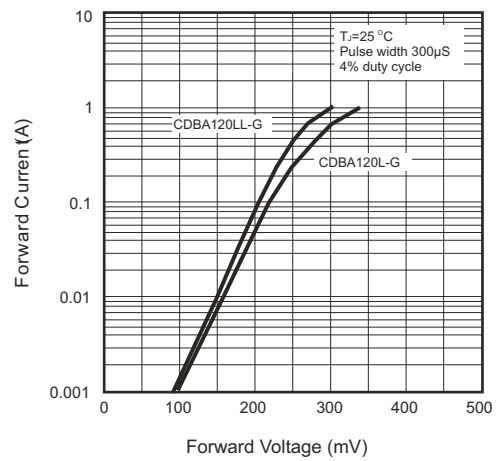


Fig.3 Junction Capacitance

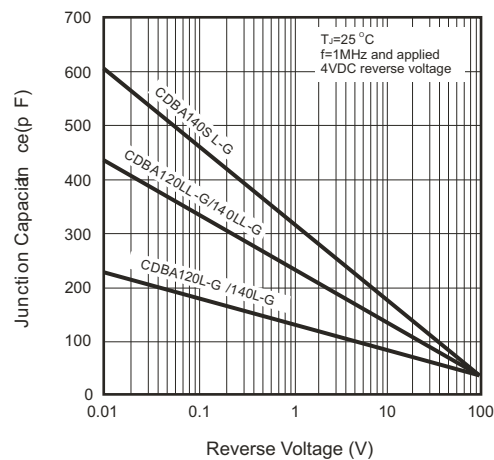


Fig.4 Forward Characteristics

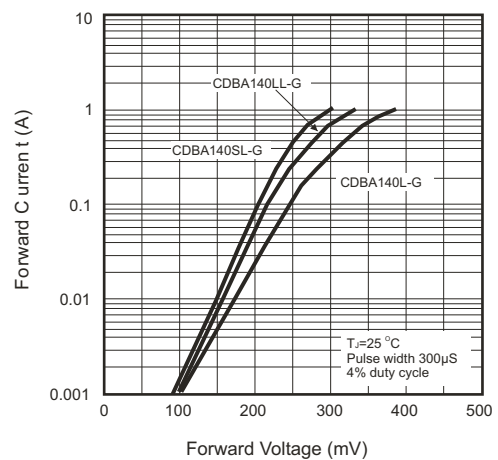


Fig.5 Non-repetitive Forward Surge Current

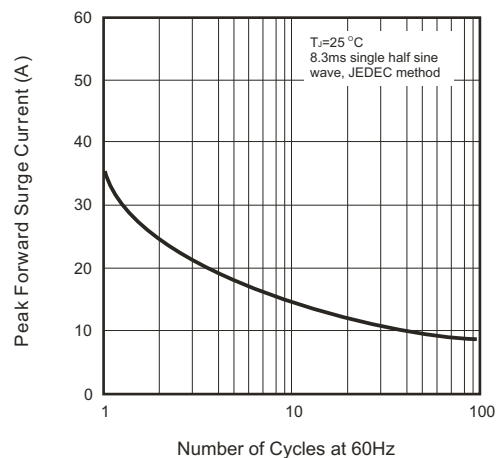
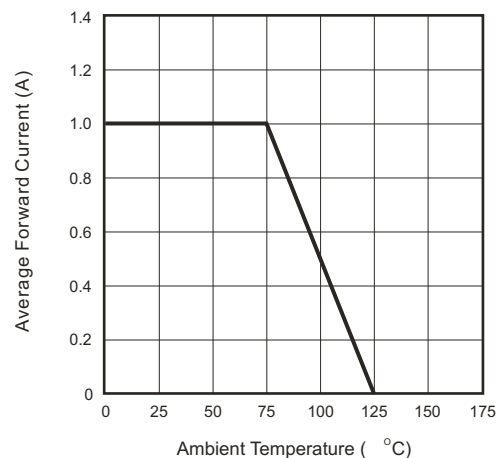


Fig.6 Current Derating Curve



# AMEYA360

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