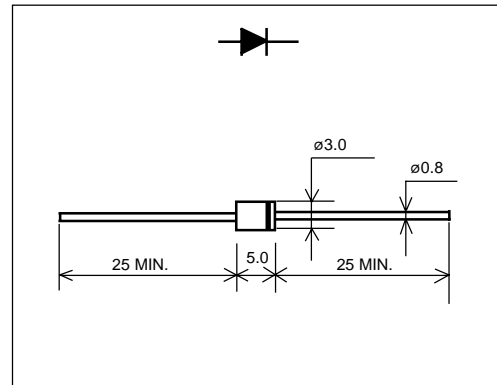


# CB903-4S (2.0A)

(400V / 2.0A)

## LOW LOSS SUPER HIGH SPEED RECTIFIER

## Outline drawings, mm



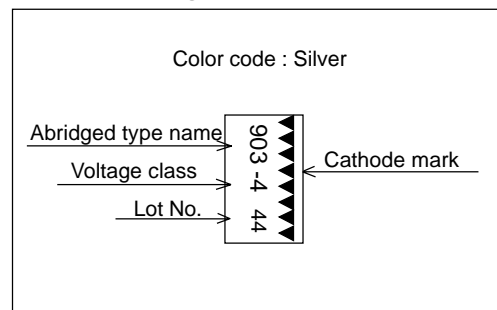
## Features

- Low  $V_F$
- Super high speed switching
- High reliability by planer design

## Applications

- High speed switching

## Marking



## Maximum ratings and characteristics

- Absolute maximum ratings

| Item                            | Symbol      | Conditions                                | Rating      | Unit             |
|---------------------------------|-------------|---|-------------|------------------|
| Repetitive peak reverse voltage | $V_{RRM}$   |   | 400         | V                |
| Average forward current         | $I_{F(AV)}$ | Resistive load<br>$T_I=97^\circ\text{C}$  | 2.0         | A                |
| Surge current                   | $I_{FSM}$   | Sine wave<br>10ms $T_j=150^\circ\text{C}$ | 25          | A                |
| Operating junction temperature  | $T_j$       |   | -40 to +150 | $^\circ\text{C}$ |
| Storage temperature             | $T_{stg}$   |   | -40 to +150 | $^\circ\text{C}$ |

- Electrical characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

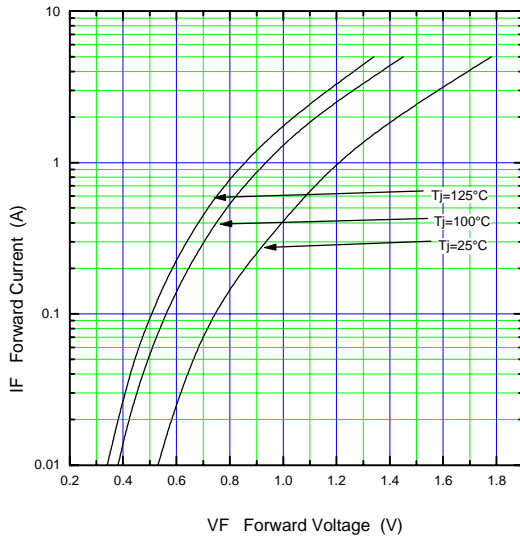
| Item                  | Symbol   | Conditions   | Max. | Unit          |
|-----------------------|----------|--|------|---------------|
| Forward voltage drop  | $V_F$    | $I_F=2.0\text{A}$  | 1.5  | V             |
| Reverse current       | $I_R$    | $V_R=V_{RRM}$  | 500  | $\mu\text{A}$ |
| Reverse recovery time | $t_{rr}$ | $I_F=0.1\text{A}$ , $I_R=0.2\text{A}$ , $I_{rec}=0.05\text{A}$ | 50   | ns            |

- Mechanical characteristics

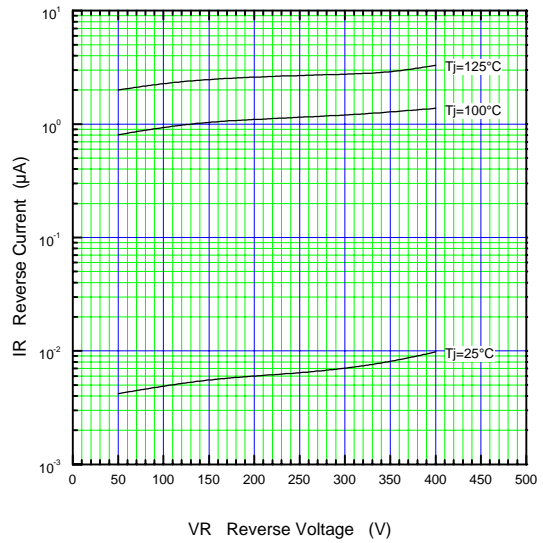
|                    |  |     |   |
|--------------------|--|-----|---|
| Approximate weight |  | 0.3 | g |
|--------------------|--|-----|---|

■ Characteristics

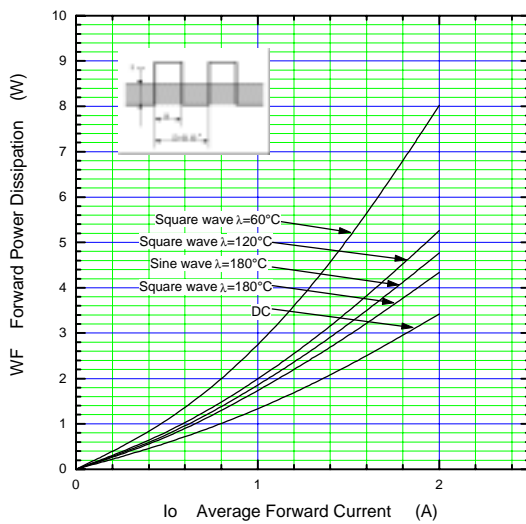
Forward Characteristic (typ.)



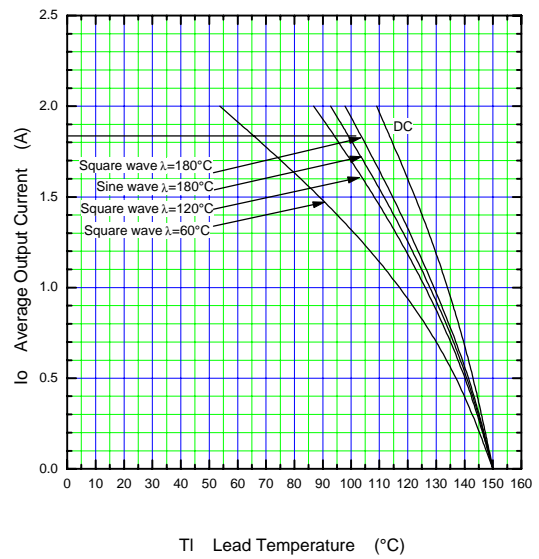
Reverse Characteristic (typ.)



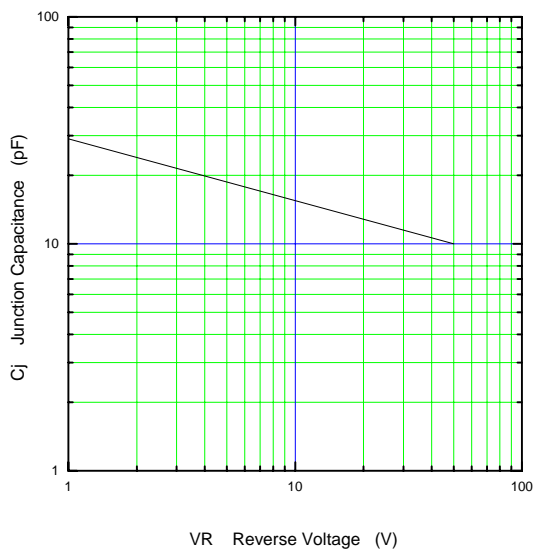
Forward Power Dissipation



Current Derating (Io-TI)



Junction Capacitance Characteristic (typ.)



Surge Capability

