## LL103A ... LL103C

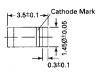
#### Silicon Schottky Barrier Diode

for general purpose applications

The LL103A, B, C is a metal on silicon Schottky barrier device which is protected by a PN junction guard ring. The low forward Voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications. Other uses are for click suppression, efficient full wave bridges in telephone subsets, and as blocking diodes in rechargeable low voltage battery systems.

This diode is also available in DO-35 case with type designation SD103A, B, C.

These diodes are delivered taped. Details see "Taping".



Glass case JMiniMELF

Weight approx. 0.05g Dimensions in mm

#### Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

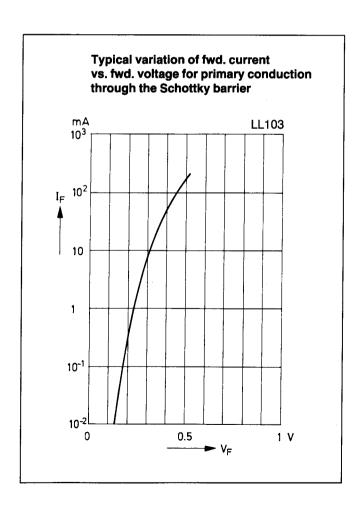
|                            | Symbol   | Value  | Unit   |
|----------------------------|--|--|--|
| LL103A<br>LL103B<br>LL103C | V <sub>RRM</sub><br>V <sub>RRM</sub><br>V <sub>RRM</sub> | 40<br>30<br>20   | V<br>V<br>V  |
|                            | P <sub>tot</sub>   | 400 1)   | mW   |
|                            | T <sub>i</sub>   | 125  | °C   |
|                            | T <sub>s</sub>   | -55 to + 175   | °C   |
|                            | I <sub>FSM</sub>   | 15   | А  |
|                            | LL103B   | LL103A VRRM VRRM VRRM VRRM VRRM VRRM Trust | LL103A VRRM 40 LL103B VRRM 30 LL103C VRRM 20  Ptot 400 1)  T <sub>j</sub> 125  T <sub>s</sub> -55 to + 175 |

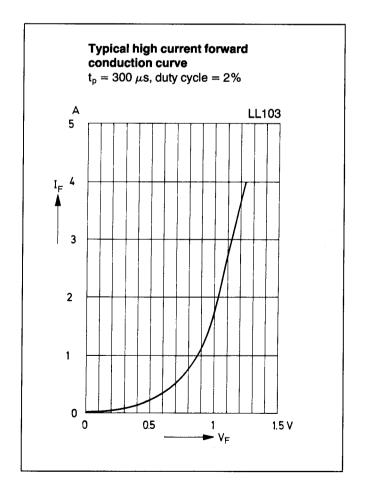




### Characteristics at T<sub>i</sub> =25 °C

|   |                   | Symbol           | Min. | Тур. | Max. | Unit |
|---|-------------------|------------------|------|------|------|------|
| Leakage Current                               |                   |                  |      |      |      |      |
| at V <sub>R</sub> = 30 V                      | LL103A            | l <sub>R</sub>   | -    | -    | 5    | μΑ   |
| at V <sub>R</sub> = 20 V                      | LL103B            | I <sub>R</sub>   | -    | -    | 5    | μΑ   |
| at V <sub>R</sub> = 10 V                      | LL103C            | l <sub>R</sub>   | -    | -    | 5    | μΑ   |
| Forward Voltage Drop                          |                   |                  |      |      |      |      |
| at I <sub>F</sub> = 20 mA                     |                   | V <sub>F</sub>   | •    | -    | 0.37 | V    |
| at I <sub>F</sub> = 200 mA                    |                   | V <sub>F</sub>   | -    | -    | 0.6  | ٧    |
| Junction Capacitance                          |                   | C <sub>tot</sub> | -    | 50   | -    | pF   |
| at $V_R = 0 V$ , $f = 1 MHz$                  |                   |                  |      |      |      |      |
| Reverse Recovery Time                         |                   | t <sub>rr</sub>  | -    | 10   | -    | ns   |
| at $I_F = I_R = 5$ mA to 200 mA, recover to 0 | .1 I <sub>R</sub> |                  |      |      |      |      |

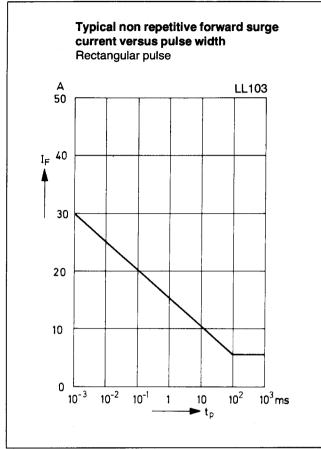


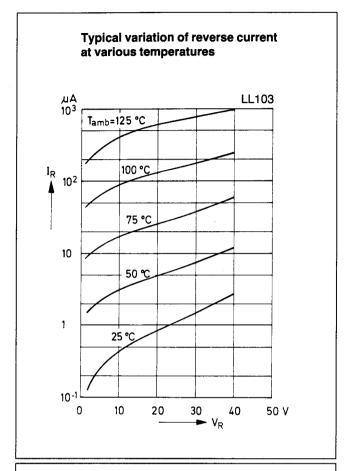


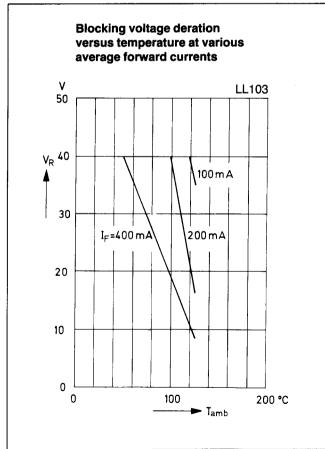


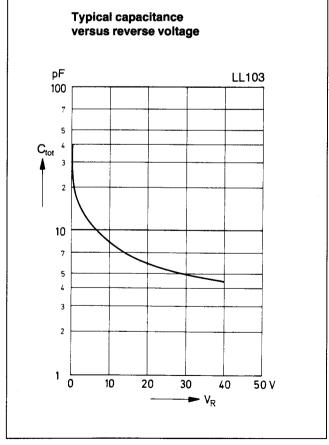
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