

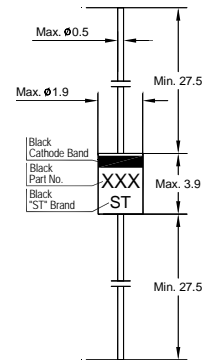
SD103A...SD103C

SILICON SCHOTTKY BARRIER DIODES

for general purpose applications

The SD103A, 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 system.

This diode is also available in MiniMELF case with type designation LL103A, B, C.



Glass Case DO-35
Dimensions in mm

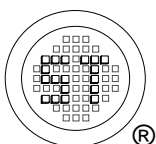
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RRM}	SD103A 40	V
		SD103B 30	
		SD103C 20	
Power Dissipation	P_{tot}	400 ¹⁾	mW
Single Cycle Surge 60 Hz Sine Wave	I_{FSM}	15	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 175	$^\circ\text{C}$

¹⁾ Valid provided the leads direct at the case are kept at ambient temperature.

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage	V_F	-	at $I_F = 20\text{ mA}$ 0.37	V
at $I_F = 200\text{ mA}$			0.6	V
Reverse Leakage Current	I_R	-	SD103A at $V_R = 30\text{ V}$ 5	μA
SD103B at $V_R = 20\text{ V}$				
SD103C at $V_R = 10\text{ V}$				
Junction Capacitance	C_{tot}	50	-	pF
Reverse Recovery Time	t_{rr}	10	-	ns
at $I_F = I_R = 5\text{ mA}$ to 200 mA, recover to 0.1 I_R				



SEMTECH ELECTRONICS LTD.

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ISO/TS 16949 : 2002
Certificate No. 05103



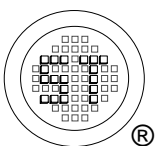
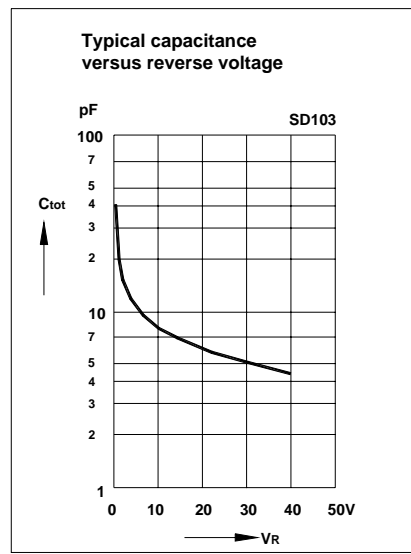
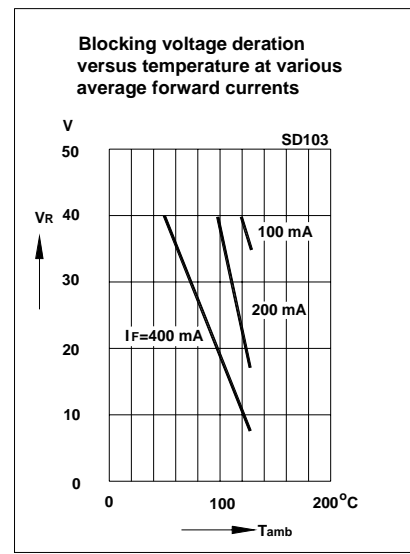
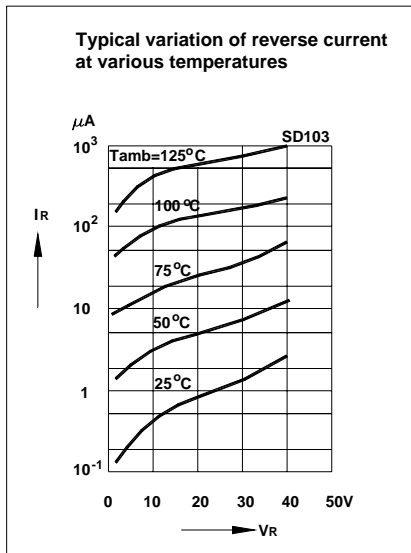
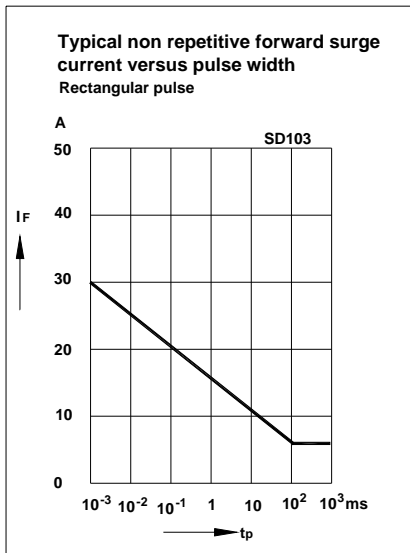
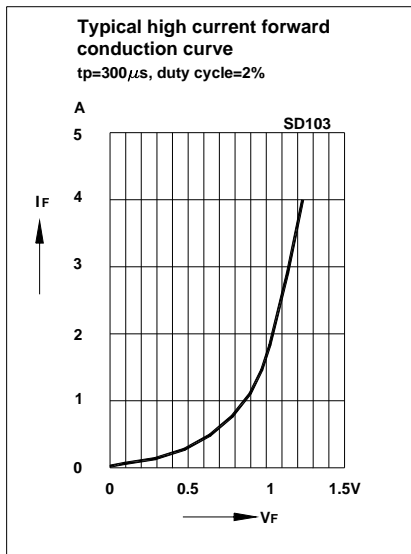
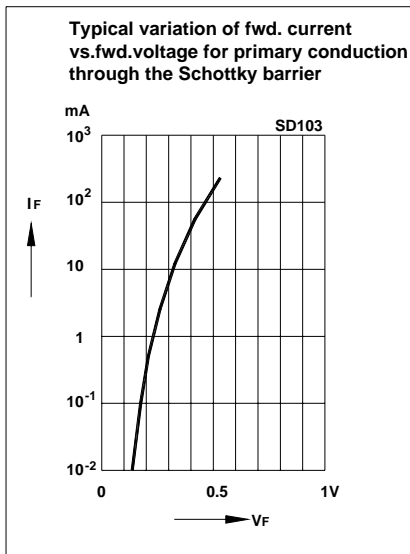
ISO 14001:2004
Certificate No. 71116



ISO 9001:2000
Certificate No. 0506098

Dated : 23/06/2007

SD103A...SD103C



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ISO/TS 16949 : 2002
 Certificate No. 05103

ISO 14001:2004
 Certificate No. 7116

ISO 9001:2000
 Certificate No. 0506098

Dated : 23/06/2007