SD103A ... SD103C

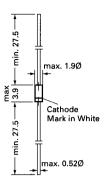
Silicon Schottky Barrier Diodes

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.

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



Glass case JEDEC DO-35 54 A 2 according to DIN 41880

Weight approx. 0.13g Dimensions in mm

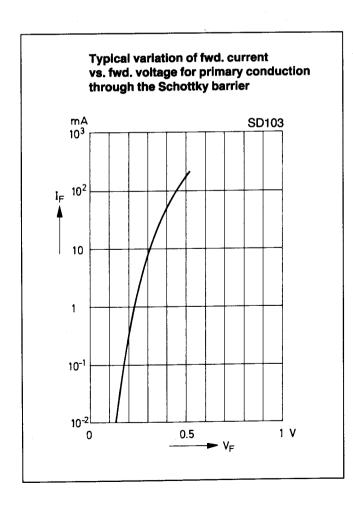
Absolute Maximum Ratings (T_a = 25 °C)

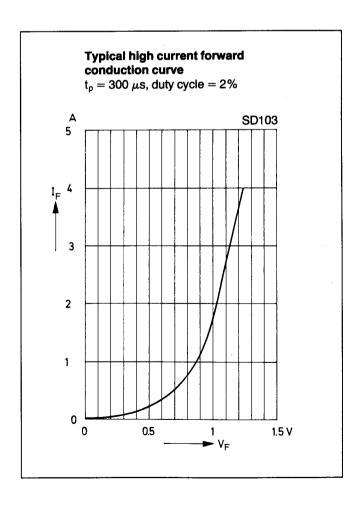
		Symbol	Value	Unit
Peak Reverse Voltage	SD103A SD103B SD103C	V _{ARM} V _{ARM}	40 30 20	V V
Power Dissipation (Infinite Heatsink) Tc = 3/8 " from body derates at 4 mW/°C to 0 at 125 °C		P _{tot}	400 1)	mW
Junction Temperature		T _i	125	∘c
Storage Temperature Range		T _s	-55 to + 175	∘c
Single Cycle Surge 60 Hz sinewave		I _{FSM}	15	А



Characteristics at T_{amb} =25 °C

	·	Symbol	Min.	Тур.	Max.	Unit
Leakage Current						
at $V_B = 30 \text{ V}$	SD103A	I _R	-	-	5	μΑ
at V _B = 20 V	SD103B	I _R	-	-	5	μΑ
at V _R = 10 V	SD103C	I _R	-	-	5	μΑ
Forward Voltage Drop						
at I _F = 20 mA		V _F	-	-	0.37	V
at I _F = 200 mA		V _F	-	-	0.6	V
Junction Capacitance		C _{tot}	-	50	-	pF
at $V_B = 0 \text{ V}$, $f = 1 \text{ MHz}$						
Reverse Recovery Time		t _{rr}	-	10	_	ns
at $I_F = I_R = 5$ mA to 200 mA, recover to 0.1 l	l _R				,	







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