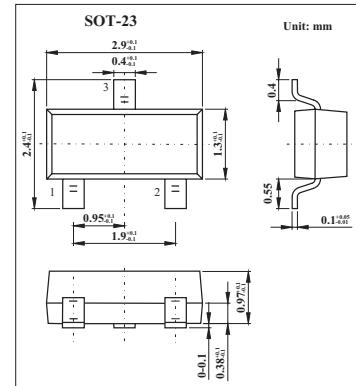


Schottky Barrier (Double) Diodes

1PS59SB Series

■ Features

- Low forward voltage
- Guard ring protected
- Small SMD package.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Conditions	Min	Max	Unit
Continuous reverse voltage	V _R			30	V
Continuous forward current	I _F			200	mA
Repetitive peak forward current	I _{FSM}	t _p ≤ 1s; δ ≤ 0.5		300	mA
Non-repetitive peak forward current	I _{FSM}	t _p ≤ 10 ms		600	mA
Total power dissipation (per package)	P _{tot}	T _{amb} ≤ 25 °C		250	mW
Storage temperature	T _{stg}		-65	+150	°C
Junction temperature	T _j			125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Max	Unit
forward voltage	V _F	I _F = 0.1 mA	240	mV
		I _F = 1 mA	320	
		I _F = 10 mA	400	
		I _F = 30 mA	500	
		I _F = 100 mA	800	
reverse current	I _R	V _R = 25 V	2	μ A
reverse recovery time	t _{rr}	when switched from I _F = 10 mA to I _R = 10 mA; R _L = 100 Ω measured at I _R = 1 mA	5	ns
diode capacitance	C _d	f = 1 MHz; V _R = 1 V	10	pF
thermal resistance from junction to ambient	R _{th j-a}		500	K/W

■ Marking

Type	1PS59SB10	1PS59SB14	1PS59SB15	1PS59SB16
Marking	10	14	15	16