

## Schottky barrier diode

## 1PS59SB20

## ■ Features

- Ultra fast switching speed
- Low forward voltage
- Guard ring protected
- Small SMD package.

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

Parameter	Symbol	Min	Max	Unit
Continuous reverse voltage	$V_R$		40	V
Continuous forward current	$I_F$		500	mA
Non-repetitive peak forward current	$I_{FSM}$		2	A
Storage temperature	$T_{stg}$	-65	+150	$^\circ\text{C}$
Junction temperature	$T_j$		125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Min	Max	Unit
forward voltage	$V_F$	$I_F = 500\text{ mA}$		550	mV
reverse current	$I_R$	$V_R = 35\text{ V}$		100	$\mu\text{ A}$
		$V_R = 35\text{ V}, T_j = 100\text{ }^\circ\text{C}$		10	mA
diode capacitance	$C_d$	$f = 1\text{ MHz}; V_R = 0\text{ V}$	60	90	pF
thermal resistance from junction to ambient	$R_{th\ j-a}$			500	K/W

## ■ Marking

Marking	20
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