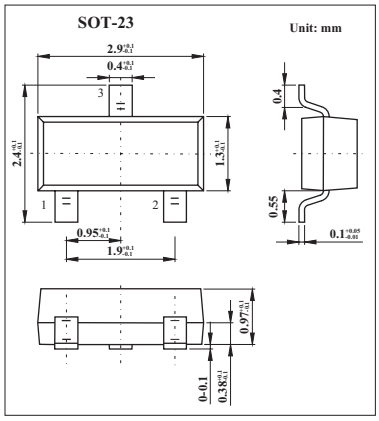
Schottky barrier diode

1PS59SB20



Features

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

Absolute Maximum Ratings Ta = 25℃

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

Electrical Characteristics Ta = 25℃

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

Marking

Marking	20