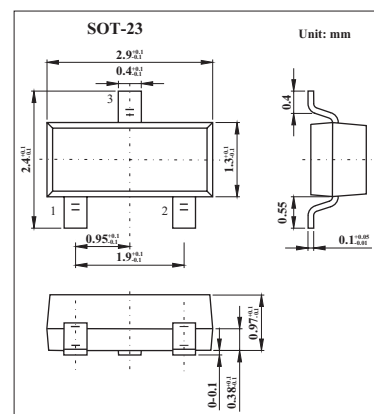


Schottky barrier diode

BAT17

■ Features

- Low forward voltage
- Small SMD package
- Low capacitance.

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

Parameter	Symbol	Min	Max	Unit
Continuous reverse voltage	V_R		4	V
Continuous forward current	I_F		30	mA
Storage temperature	T_{stg}	-65	+150	$^\circ\text{C}$
Junction temperature	T_j		100	$^\circ\text{C}$
thermal resistance from junction to ambient	$R_{th\ j-a}$		500	K/W

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

Parameter	Symbol	Conditions	Max	Unit
Forward voltage	V_F	$I_F = 0.1\text{ mA}$	350	mV
		$I_F = 1\text{ mA}$	450	
		$I_F = 10\text{ mA}$	600	
Reverse current	I_R	$V_R = 3\text{ V}$	0.25	$\mu\text{ A}$
		$V_R = 3\text{ V}; T_{amb} = 60^\circ\text{C}$	1.25	
Diode forward resistance	r_D	$f = 1\text{ KHz}; I_F = 5\text{ mA}$	15	Ω
Diode capacitance	C_d	$f = 1\text{ MHz}; V_R = 0$	1	pF
noise figure	F	$f = 900\text{ MHz}; \text{Note 1}$	8	dB

Note

1. The local oscillator is adjusted for a diode current of 2 mA. IF amplifier noise $F_{if} = 1.5\text{ dB}$; $f = 35\text{ MHz}$.

■ Marking

Marking	A3p
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