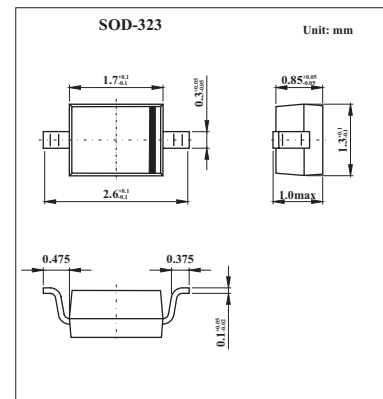


SCHOTTKY DIODE

SD104AWS

■ Features

- Low turn-on voltage
- Low Capacitance
- Ultrafast switching
- Microminiature plastic package
- Single, double, and ring balanced mixer in narrow band receivers up to 1 GHz
- Detectors and fast switching up to 1 GHz
- Phase detectors
- Suitable for trdios, TV, CTV, and hyper band tuners



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	20	V
Forward Current	I_F	30	mA
Power Dissipation Tc = 25 °C	P_{tot}	150 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	650 ⁽¹⁾	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature Range	T_S	-55 to +150	°C

Note:

1. Valid provided that electrodes are kept at ambient temperature

■ Electrical Characteristics Ta = 25°C

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage (Note 2)	V_R	$I_R = 10 \mu A$	20			V
Leakage Current	I_R	$V_R = 15V$			500	V
Forward Voltage Drop	V_F	$I_F = 0.1 mA$			350	mV
		$I_F = 1.0 mA$			450	
		$I_F = 10 mA$			600	
Diodes Capacitance	C_D	$V_R = 0 V, f = 1 MHz$			0.8	pF