

SGD102

GaAs Schottky Barrier Diode

C to X Band, Mixer, Modulator Applications

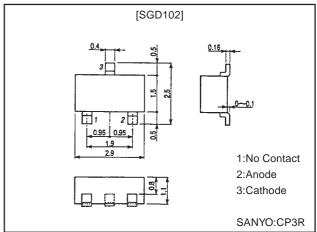
Features

- · Ultrasmall-sized package.
- · Less parasitic components, conversion loss.

Package Dimensions

unit:mm

1276



Specifications

Absolute Maximum Ratings at Ta = 25°C

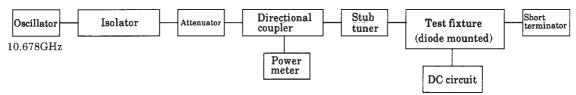
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V _{RM}		4.5	V
Reverse Voltage	V _R		4.0	V
Peak Forward Current	I _{FM}		150	mA
Average Rectified Current	IO		50	mA
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Olin
Forward Voltage	VF	I _F =20mA		0.8	0.9	V
Reverse Voltage	V _R	I _R =10μA	4.0	6.0		V
Interterminal Capacitance	Ct	V=0V, f=1MHz		0.3	0.4	pF
Series Resistance	RS	I _F =20mA		1.5	3.0	Ω
Conversion Loss	LC	Measured using the DC incremental methode* f=10.678GHz, P=10mW		4.0		dB

Note)*: Conversion loss measurement diagram

For measurement of conversion loss, do a sampling from the lot population and use the DC incremental method for measurement.



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