

SANYO	No.5581	SGD102
		GaAs Schottky Barrier Diode
C to X Band, Mixer, Modulator Applications		

Features

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

Absolute Maximum Ratings at Ta = 25°C

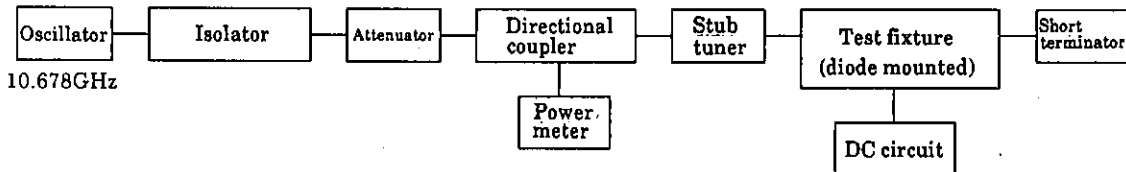
			unit
Peak Reverse Voltage	V_{RM}	4.5	V
Reverse Voltage	V_R	4.0	V
Peak Forward Current	I_{FM}	150	mA
Average Rectified Current	I_O	50	mA
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 to 150	°C

Electrical Characteristics at Ta = 25°C

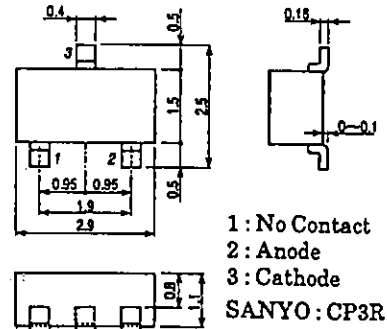
			min	typ	max	unit
Forward Voltage	V_F	$I_F = 20mA$		0.8	0.9	V
Reverse Voltage	V_R	$I_R = 10\mu A$	4.0	6.0		V
Interterminal Capacitance	C_t	$V = 0V, f = 1MHz$		0.3	0.4	pF
Series Resistance	R_s	$I_F = 20mA$		1.5	3.0	Ω
Conversion Loss	L_C	Measured using the DC incremental method * $f = 10.678GHz, P = 10mW$		4.0		dB

※: Conversion loss measurement diagram

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



Package Dimensions 1276
(unit : mm)



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