



# SGD-100T

GaAs Schottky Barrier Diode

## C to X Band, Mixer, Modulator Applications

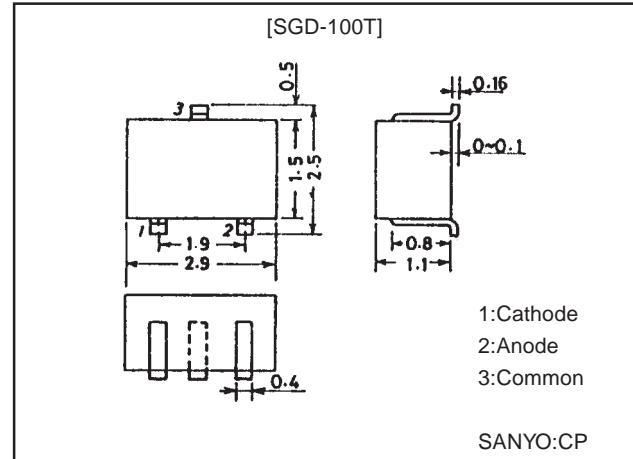
### Features

- Very small-sized ceramic package.
- Less parasitic components, conversion loss.

### Package Dimensions

unit:mm

1235A



### Specifications

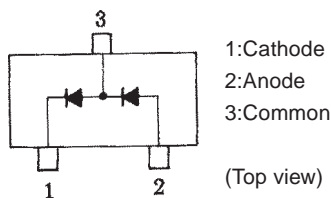
#### Absolute Maximum Ratings at Ta = 25°C (Per element)

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	$V_{RM}$		4.5	V
Reverse Voltage	$V_R$		4	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
Mounting Temperature	$T_m$	10ns	230	°C

#### Electrical Characteristics at Ta = 25°C (Per element)

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
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	$\Omega$

### Electrical Connection



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