# 2SC5625

Unit : mm

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE(mini type)

2.5

1.5 0.5

0.5

1.90 2.9

0.8

OUTLINE DRAWING

### DESCRIPTION

2SC5625 is a super mini package resin sealed silicon NPN epitaxial transistor,

It is designed for low frequency voltage application.

#### FEATURE

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Small collector to emitter saturation voltage. VCE(sat)=0.5V max

Super mini package for easy mounting

## **APPLICATION**

For Hybrid IC,small type machine low frequency voltage Amplify application.

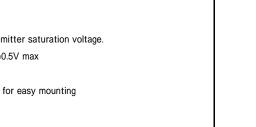
### MAXIMUM RATINGS(Ta=25)

Symbol	Parameter	Ratings	Unit
V <sub>CBO</sub>	Collector to Base voltage	300	V
V <sub>CEO</sub>	Collector to Emitter voltage	300	V
V <sub>EBO</sub>	Emitter to Base voltage	7	V
Ι <sub>ο</sub>	Collector current	100	mA
Pc	Collector dissipation	150	mW
Tj	Junction temperature	+ 125	
T <sub>stg</sub>	Storage temperature	-55 ~ +125	

## ELECTRICAL CHARACTERISTICS (Ta=25)

Parameter	Symbol	Test conditions	Limits			11.4	
Parameter				Min	Тур	Max	Unit
C to B break down voltage	V(BR)сво	Ι <sub>c</sub> =50 μ Α ,Ι <sub>ε</sub> =0		300	-	-	V
E to B break down voltage	V(BR)EBO	Ι <sub>c</sub> =50 μ Α ,Ι <sub>c</sub> =0		7	-	-	V
C to E break down voltage	V(BR)CEO	I <sub>C</sub> =1mA ,R <sub>BE</sub> =		300	-	-	V
Collector cut off current	ICBO	V <sub>CB</sub> =300V, I <sub>E</sub> =0mA		-	-	0.5	μA
Emitter cut off current	IEBO	V <sub>EB</sub> =5V, I <sub>C</sub> =0mA		-	-	0.5	μA
DC forward current gain	hFE	V <sub>CE</sub> =10V, I <sub>C</sub> =10mA	1	60	-	305	
C to E Saturation Vlotage	VCE(sat)	l <sub>c</sub> =100mA ,I <sub>B</sub> =10mA		-	-	0.5	V
Gain bandwidth product	fT	V <sub>CE</sub> =6V, I <sub>E</sub> =-10mA		-	40	-	MHz
Collector output capacitance	Cob	V <sub>CB</sub> =6V, I <sub>E</sub> =0mA,f=1MHz		-	3.0	-	pF

# **ISAHAYA ELECTRONICS CORPORATION**



#### JEITA: SC-59

- 0.1

TERMINAL CONNECTER : BASE : EMITTER : COLLECTOR



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