

## DESCRIPTION

2SC5625 is a super mini package resin sealed silicon NPN epitaxial transistor, It is designed for low frequency voltage application.

## FEATURE

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

Super mini package for easy mounting

## APPLICATION

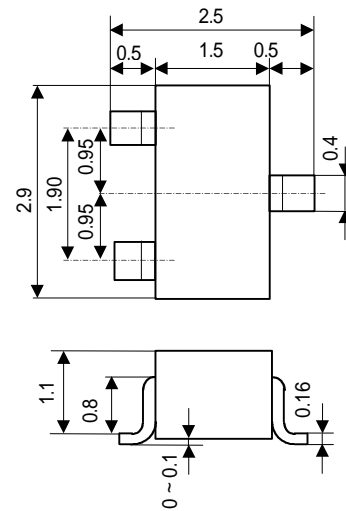
For Hybrid IC,small type machine low frequency voltage Amplify application.

## 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
I <sub>O</sub>	Collector current	100	mA
P <sub>C</sub>	Collector dissipation	150	mW
T <sub>j</sub>	Junction temperature	+ 125	
T <sub>stg</sub>	Storage temperature	-55 ~ + 125	

## OUTLINE DRAWING

Unit : mm



JEITA : SC-59

## TERMINAL CONNECTER

: BASE  
: EMITTER  
: COLLECTOR

## ELECTRICAL CHARACTERISTICS ( Ta=25 )

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to B break down voltage	V(BR) <sub>CBO</sub>	I <sub>C</sub> =50 μA, I <sub>E</sub> =0	300	-	-	V
E to B break down voltage	V(BR) <sub>EBO</sub>	I <sub>C</sub> =50 μA, I <sub>C</sub> =0	7	-	-	V
C to E break down voltage	V(BR) <sub>CEO</sub>	I <sub>C</sub> =1mA, R <sub>BE</sub> =	300	-	-	V
Collector cut off current	I <sub>CBO</sub>	V <sub>CB</sub> =300V, I <sub>E</sub> =0mA	-	-	0.5	μA
Emitter cut off current	I <sub>EBO</sub>	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)	I <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



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