

# 2SC5633

FOR HIGH FREQUENCY AMPLIFY APPLICATION  
SILICON NPN EPITAXIAL TYPE

## DESCRIPTION

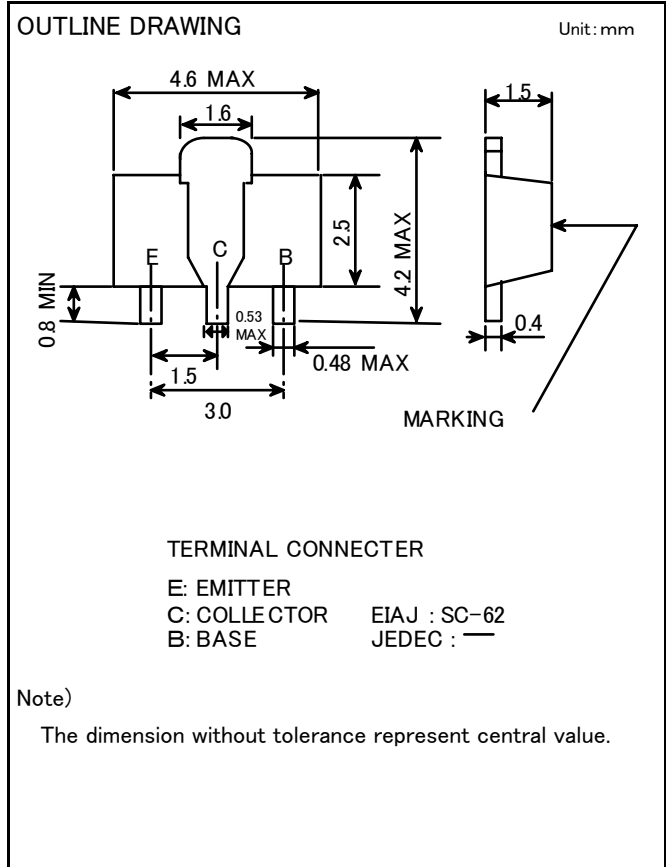
2SC5633 is a super mini package resin sealed silicon NPN epitaxial transistor, It is designed for high voltage application.

## FEATURE

- Low collector to emitter saturation voltage.  
VCE(sat)=0.5V max
- Super mini package for easy mounting

## APPLICATION

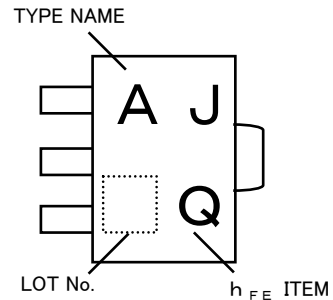
For Hybrid IC, DC-DC converter



## MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V <sub>CB0</sub>	Collector to Base voltage	300	V
V <sub>CE0</sub>	Collector to Emitter voltage	300	V
V <sub>EB0</sub>	Emitter to Base voltage	7	V
I <sub>O</sub>	Collector current	100	mA
P <sub>c</sub>	Collector dissipation	500	mW
T <sub>j</sub>	Junction temperature	+150	°C
T <sub>stg</sub>	Storage temperature	-55~+150	°C

## MARKING



## ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to B break down voltage	V(BR) <sub>CB0</sub>	I <sub>C</sub> =50 μA, I <sub>E</sub> =0	300	-	-	V
E to B break down voltage	V(BR) <sub>EB0</sub>	I <sub>E</sub> =50 μA, I <sub>C</sub> =0	7	-	-	V
C to E break down voltage	V(BR) <sub>CE0</sub>	I <sub>C</sub> =1mA, R <sub>BE</sub> =∞	300	-	-	V
Collector cut off current	I <sub>CB0</sub>	V <sub>CB</sub> =300V, I <sub>E</sub> =0mA	-	-	0.5	μA
Emitter cut off current	I <sub>EB0</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0mA	-	-	0.5	μA
DC forward current gain	h <sub>FE</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =10mA	60	-	305	
C to E Saturation Voltage	VCE(sat)	I <sub>C</sub> =100mA, I <sub>B</sub> =10mA	-	-	0.5	V
Gain bandwidth product	f <sub>T</sub>	V <sub>CE</sub> =6V, I <sub>E</sub> =-10mA	-	40	-	MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =6V, I <sub>E</sub> =0, f=1MHz	-	3.0	-	pF



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