

2SC5726

FOR HIGH FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC5726 is a mini package resin sealed silicon NPN epitaxial transistor, It is designed for high frequency application.

FEATURE

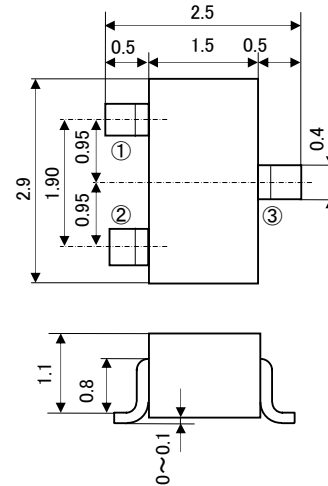
- High gain bandwidth product.
ft=10.0GHz
- High gain, low noise.
- Can operate at low voltage.
- Super mini package for easy mounting

APPLICATION

For TV tuners, high frequency amplifier , cellular phone system.

OUTLINE DRAWING

Unit: mm



JEITA: SC-59

TERMINAL CONNECTER

- ①: BASE
- ②: EMITTER
- ③: COLLECTOR

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V _{CB0}	Collector to Base voltage	15	V
V _{CE0}	Collector to Emitter voltage	6	V
V _{EB0}	Emitter to Base voltage	1.5	V
I _O	Collector current	50	mA
P _c	Collector dissipation	150	mW
T _j	Junction temperature	+125	°C
T _{stg}	Storage temperature	-55~+125	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
Collector cut off current	ICBO	V _{CB} =10V, I _E =0mA	-	-	1.0	μA
Emitter cut off current	IEBO	V _{EB} =1V, I _C =0mA	-	-	1.0	μA
DC forward current gain	hFE	V _{CE} =3V, I _C =10mA	30	-	250	
Gain bandwidth product	ft	V _{CE} =3V, I _E =10mA	-	10.0	-	GHz
Collector output capacitance	Cob	V _{CB} =3V, I _E =0mA, f=1MHz	-	0.7	-	pF
Insertion power gain	S ₂₁ ²	V _{CE} =3V, I _C =10mA, f=1GHz	10.0	13.0	-	dB
Noise figure	NF	V _{CE} =3V, I _C =5mA, f=1GHz	-	1.4	-	dB



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