

2SC5477

FOR HIGH FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC5477 is a super mini package resin sealed silicon NPN epitaxial type transistor. It is designed for high frequency amplify application.

FEATURE

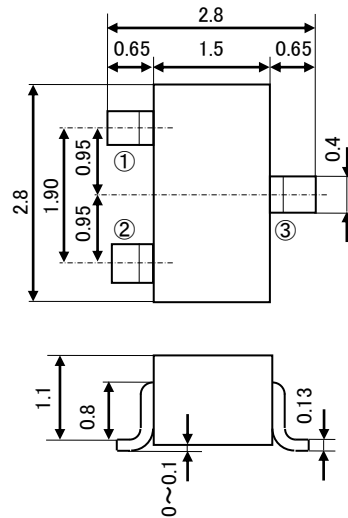
- Super mini package for easy mounting.
- High gain band width product

APPLICATION

Small type machine high frequency amplify application

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTER

①: BASE

②: EMITTER

③: COLLECTOR

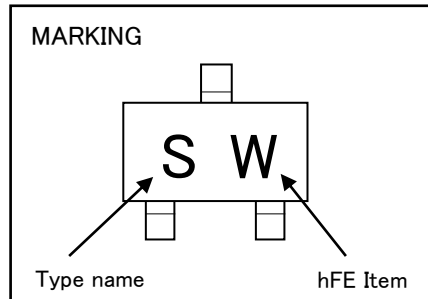
JEITA: SC-59

JEDEC: Similar to TO-236

MAXIMUM RATINGS (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to Base voltage	V _{CBO}	30	V
Emitter to Base voltage	V _{EBO}	4	V
Collector to Emitter voltage	V _{CEO}	20	V
Collector current	I _c	50	mA
Collector dissipation	P _c	150	mW
Junction temperature	T _j	+150	°C
Storage temperature	T _{stg}	-55~+150	°C

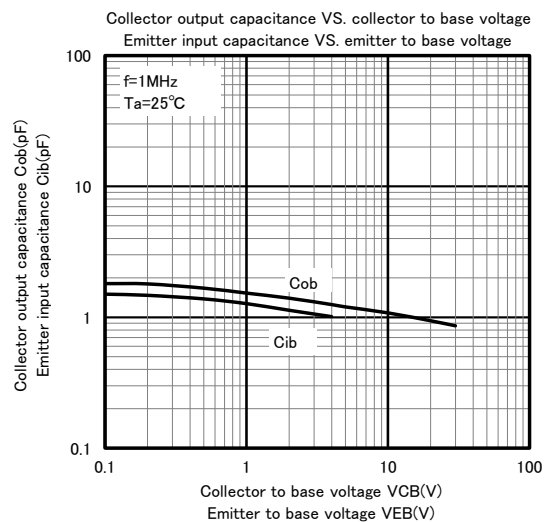
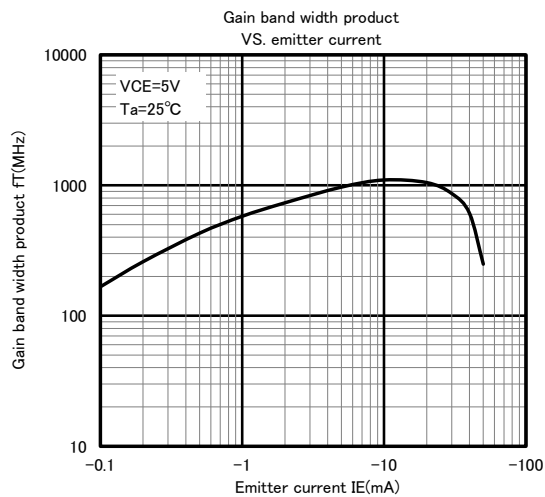
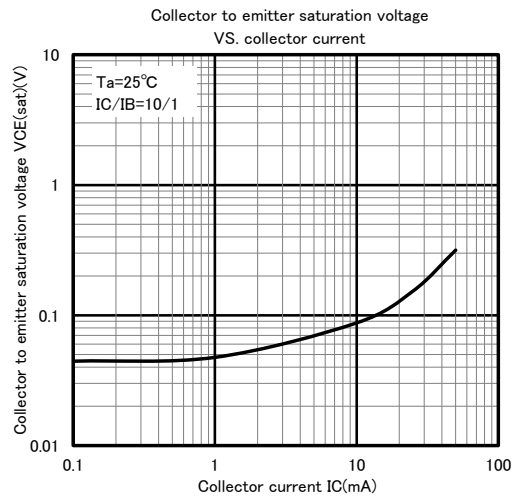
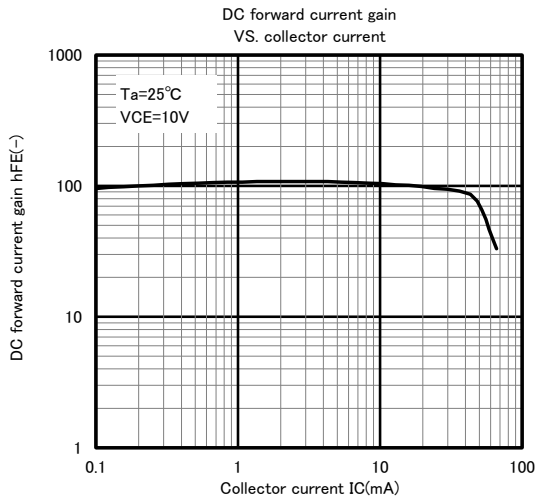
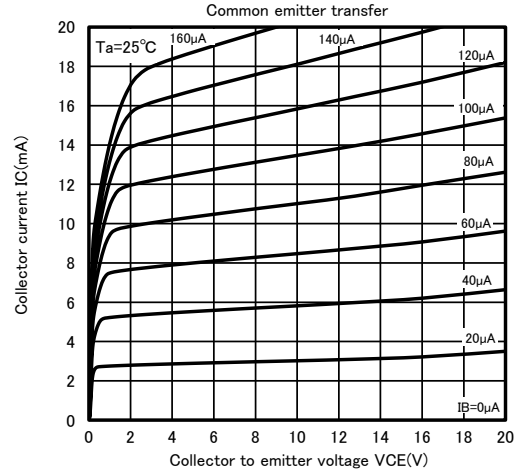
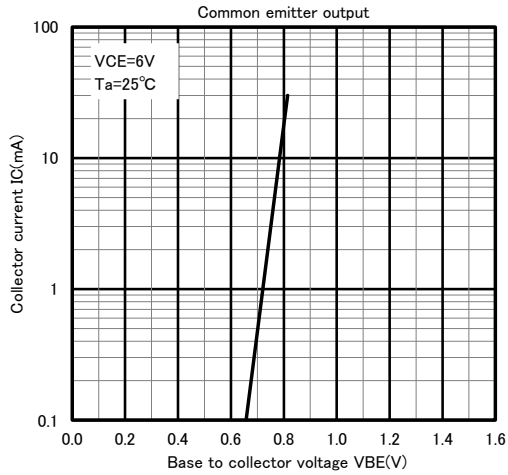
MARKING



ELECTRICAL CHARACTERISTICS (Ta=25°C)

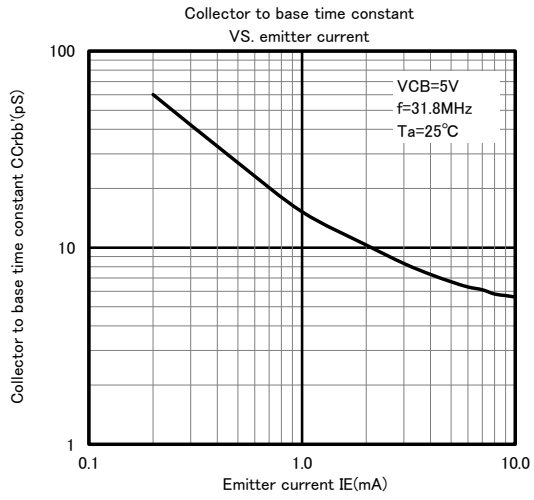
Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to B breakdown voltage	V _{(BR)CBO}	I _c =50 μA, I _E =0	30	-	-	V
E to B breakdown voltage	V _{(BR)EBO}	I _E =50 μA, I _c =0	4	-	-	V
C to E breakdown voltage	V _{(BR)CEO}	I _c =1mA, R _{BE} =∞	20	-	-	V
Collector cut off current	I _{CBO}	V _{CB} =20V, I _E =0	-	-	0.5	μA
Emitter cut off current	I _{EBO}	V _{EB} =3V, I _c =0	-	-	0.5	μA
DC forward current gain	h _{FE}	V _{CE} =10V, I _c =5mA	50	148	-	-
C to E saturation voltage	V _{CE(sat)}	I _c =10mA, I _B =1mA	-	0.1	-	V
Gain bandwidth product	f _T	V _{CE} =5V, I _E =-10mA	600	1100	-	MHz
Collector output capacitance	C _{ob}	V _{CB} =6V, I _E =0, f=1MHz	-	1.2	1.5	pF

TYPICAL CHARACTERISTICS



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