For High Frequency Amplify Application Silicon NPN Epitaxial Type (Mini type)

# **DESCURIPTION**

2SC5477 is a super mini packege 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

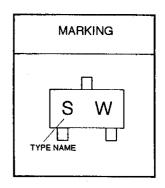
# **APPLICATION**

Small type machine high frequency amplify application

# TERMINAL CONNECTOR ①: BASE ②: EMITTER EIAJ: SC-59 ③: COLLECTOR JEDEC: TO-236 resemblance

# MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT	
Vсво	Collector to Base voltage	30	V	
VEBO	Emitter to Base voltage	4	V	
VCEO	Collector to Emitter voltage	20	V	
l c	Collector current	50	mA	
Pc	Collector dissipation(Ta=25°C)	150	mW	
Tj	Junction temperature	+150	°C	
Tstg	Storage temprature	-55to+150	°C	



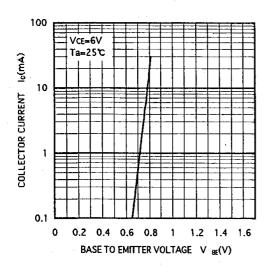
# ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	1 01111
V(BR)CBO	C to B break down voltage	I c=50 μ A, I E=0mA	30			V
V(BR)CEO	C to E break down voltage	I c=100 μ A, RBE=∞	20			V
V(BR)EBO	E to B break down voltage	I c=50 μ A, I c=0mA	4			V
I сво	Collector cut cff current	VcB=20V, I E=0			0.5	μА
1 EBO	Emitter cut off current	VEB=3V, 1 C=0			0.5	μА
hfE	DC forward current gain	VCE=10V, I C=5mA	50	148		_
VCE(sat)	C to E Saturation voltage	I C=10mA, I B=1mA		0.1	0.3	V
fT	Gain band width product	Vce=5V, I e=-10mA	600	1100		MHz
Cob	Collector output capacitance	VcB=6V, I E=0, f=1MHz		1.2	1.5	pF

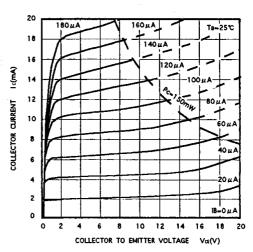
# (Transistor)

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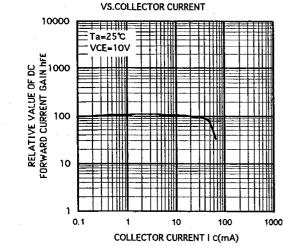




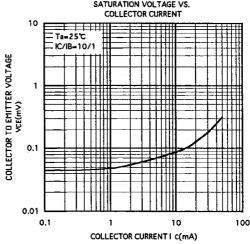
# COMMON EMITTER OUTPUT



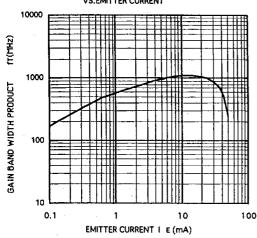
# DC FORWARD CURRENT GAIN

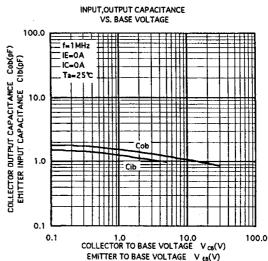


## COLLECTOR TO EMITTER SATURATION VOLTAGE VS.

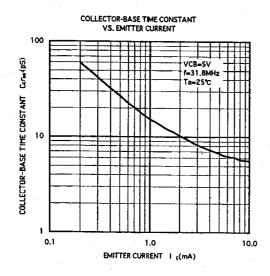


# GAIN BAND WIDTH PRODUCT





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