

(Transistor)
2SC5477

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

DESCRIPTION

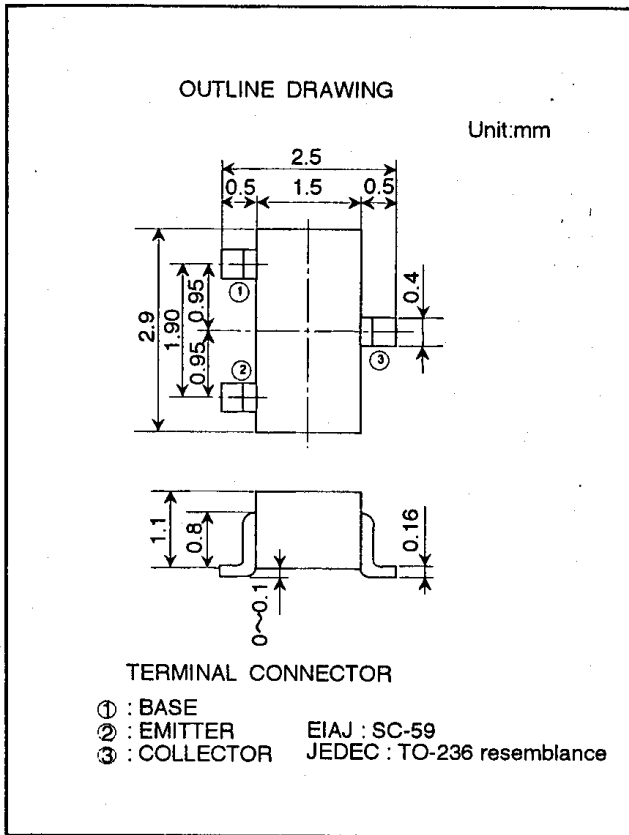
2SC5477 is a super mini package resin sealed silicon NPN epitaxial type transistor. It is designed for high frequency amplify application.

FEATURE

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

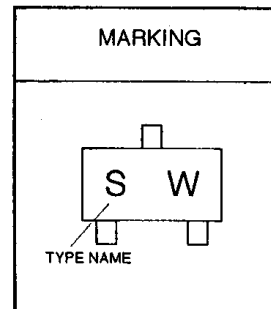
APPLICATION

Small type machine high frequency amplify application



MAXIMUM RATINGS (Ta=25°C)

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



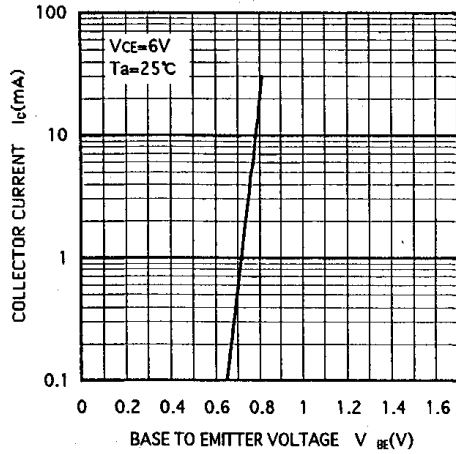
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V(BR)CBO	C to B break down voltage	Ic=50μA, Ie=0mA	30			V
V(BR)CEO	C to E break down voltage	Ic=100μA, RE=∞	20			V
V(BR)EBO	E to B break down voltage	Ic=50μA, Ic=0mA	4			V
Icbo	Collector cut off current	Vcb=20V, Ie=0			0.5	μA
Iebo	Emitter cut off current	VEB=3V, Ic=0			0.5	μA
hFE	DC forward current gain	VCE=10V, Ic=5mA	50	148		—
VCE(sat)	C to E Saturation voltage	Ic=10mA, Ib=1mA		0.1	0.3	V
ft	Gain band width product	VCE=5V, Ie=-10mA	600	1100		MHz
Cob	Collector output capacitance	Vcb=6V, Ie=0, f=1MHz		1.2	1.5	pF

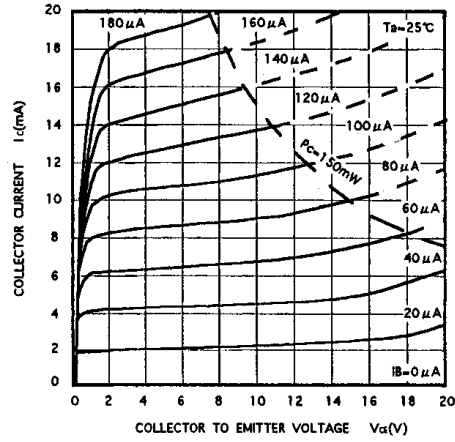
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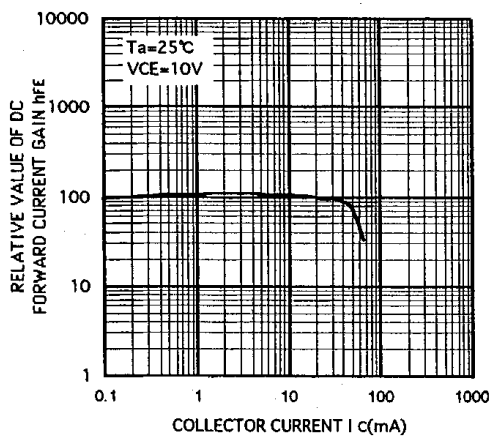
COMMON EMITTER TRANSFER



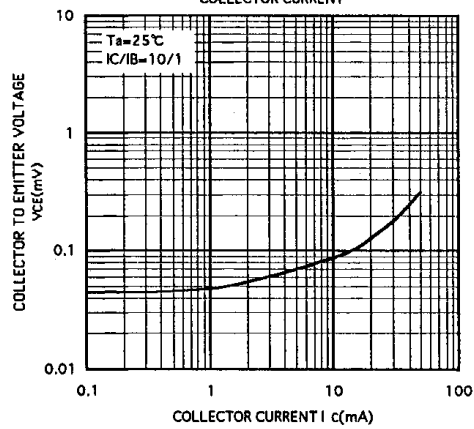
COMMON EMITTER OUTPUT



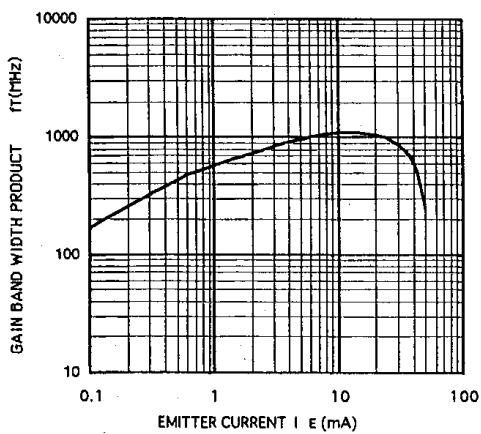
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



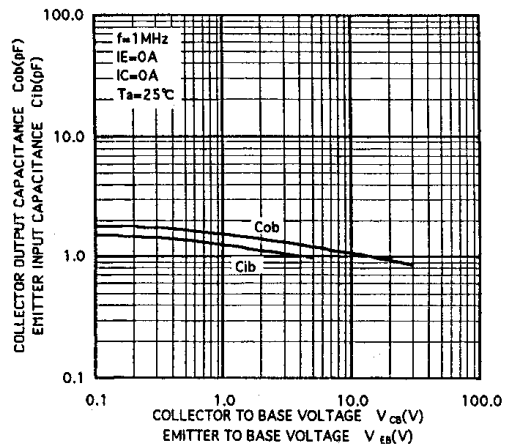
COLLECTOR TO EMITTER SATURATION VOLTAGE VS. COLLECTOR CURRENT



GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT

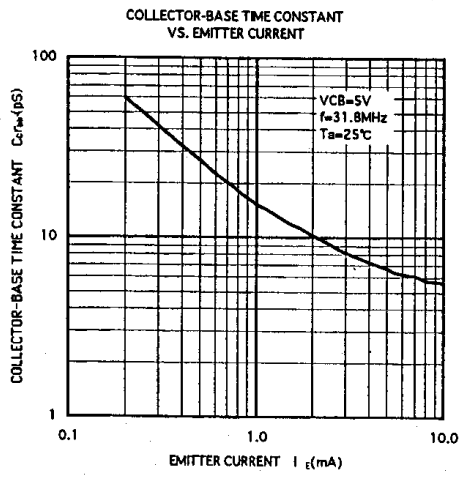


INPUT, OUTPUT CAPACITANCE VS. BASE VOLTAGE



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