(Transistor)

2SC5395

For Low Frequency Amplify Application Silicon NPN Epitaxial Type Micro(Frame type)

DESCRIPTION

2SC5395 is a silicon NPN epitaxial type transistor. It is designed for low frequency voltage amplify application.

FEATURE

- Small collector to emitter saturation voltage.
 VcE(sat)=0.3V max (@ I c=100mA,I B=10mA)
- · Excellent linearity of DC foward current gain
- · Small package for easy mounting

APPLICATION

For small machine low frequency voltage amplify application.

MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	RATINGS	UNIT
Vсво	Collector to Base voltage	50	V
VEBO	Emitter to Base voltage	6	V
VCEO	Collector to Emitter voltage	50	V
lc ·	Collector current	200	mA
Pc	Collector dissipation (Ta=25°C)	450	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55to+125	°C

TERMINAL CONNECTOR ①: EMITTER ②: COLLECTOR EIAJ: ③: BASE JEDEC:

ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TESTCONDITIONS	LIMITS			ا ا
			MIN	TYP	MAX	UNIT
V(BR)CEO	C to E break down voltage	I c=100 μ A, RBE=∞	50			V
СВО	Collector cut off current	VcB=50V, I E=0			0.1	μΑ
l EBO	Emitter cut off current	VEB=6V, 1 C=0			0.1	μΑ
hFE *	DC forward current gain	VcE=6V, I c=1mA	150		800	
hFE	DC forward current gain	VcE=6V, 1 c=0.1mA	50			
VCE(sat)	C to E saturation voltage	I c=100mA, 1 B=10mA			0.3	
fτ	Gain band width product	VcE=6V, I E=-10mA		200		MHz
Сов	Collector output capacitance	VcB=6V, I E=0, f=1MHz		2.5		pF
NF	Noise figure	VcE=6V, I E=-0.1mA, $f=1kHz$,Rg= $2k\Omega$			15	dB

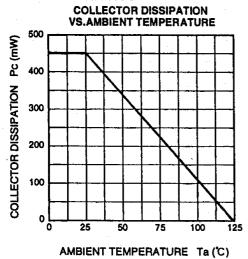
ITEM	E	F	G
hFE	150~300	250~500	400~800

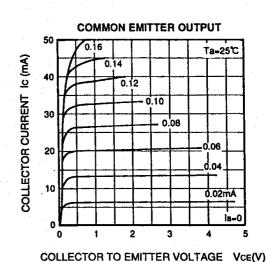
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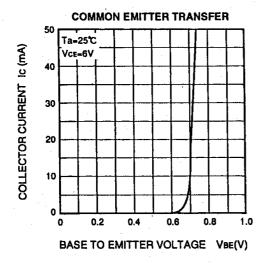
2SC5395

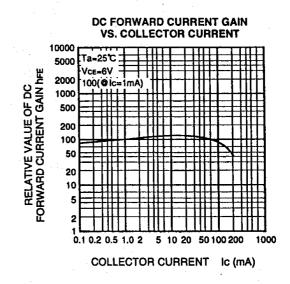
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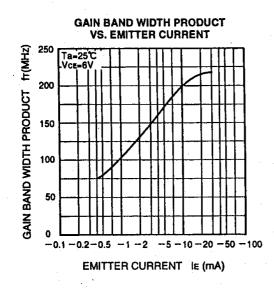
TYPICAL CHARACTERISTICS

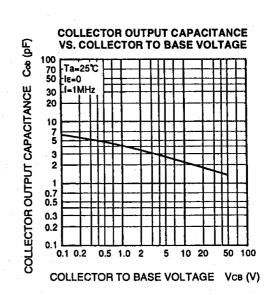








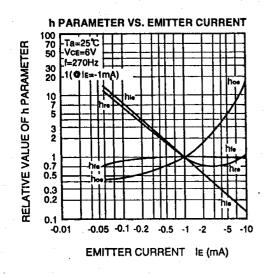


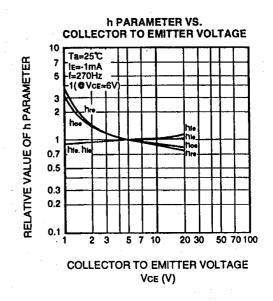


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COMMON EMITTER h PARAMETER (TYPICAL VALUE)

Symbol	Parameter	Test conditions	Limits	Unit
hie	Closed loop small signal input impedance	Ta=25℃	8.5	kΩ
hre	Open loop small signal reverse voltage amplification factor	VCE=6V	0.1	×10-3
hie	Closed loop small signal forward current amplification factor	IE=-1mA	300	
hoe	Open loop small signal output admittance	f=270Hz	5.5	μS

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