

Features

- High cut-off frequency : $f_T=24GHz$ typ (V_{CE}=3V).
- Low operating voltage.
- High gain : $|S21e|^2 = 17$ dB typ (f=2GHz).
- Halogen free compliance (UL94 HB).

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to- Base Voltage	VCBO		10	V
Collector-to-Emitter Voltage	VCEO		3.5	V
Emitter-to-Base Voltage	VEBO		2.5	V
Collector Current	IC		15	mA
Collector Dissipation	PC		50	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =5V, I _E =0A			1	μΑ
Emitter Cutoff Current	IEBO	VEB=1V, IC=0A			1	μΑ
DC Current Gain	hFE	V _{CE} =1V, I _C =5mA	70		150	
Gain-Bandwidth Product	fŢ	V _{CE} =3V, I _C =10mA	18	24		GHz
Reverse Transfer Capacitance	Cre	VCB=1V, f=1MHz		0.06		pF
Forward Transfer Gain	S21e ²	V _{CE} =3V, I _C =10mA, f=2GHz	13	17		dB
Noise Figure	NF	VCE=1V, IC=2mA, f=2GHz		1.5	2.0	dB

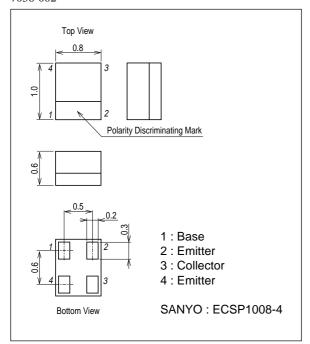
Marking : L

Notre) Pay attention to handling since it is liable to be affected by static electricity due to the high-frequency process adopted.

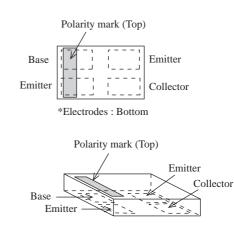
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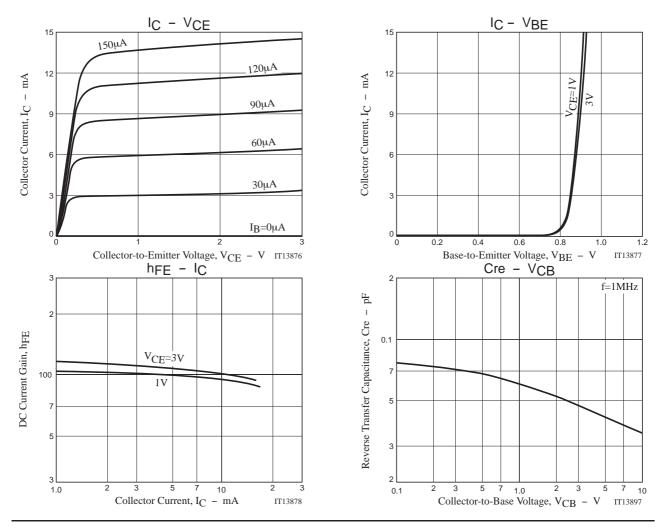
Package Dimensions

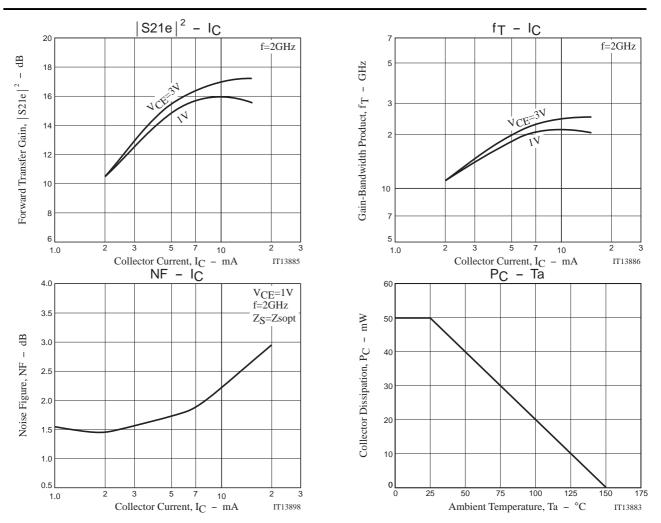
unit : mm (typ) 7036-002



Electrical Connection (Top view)







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