imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

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	V _{CBO}		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
Falameter			min	typ	max	Unit
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	fT	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	V _{CE} =1V, I _C =2mA, f=2GHz		1.5	2.0	dB

Marking : L

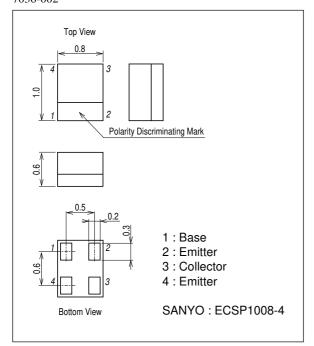
Notre) Pay attention to handling since it is liable to be affected by static electricity due to the high-frequency process adopted.

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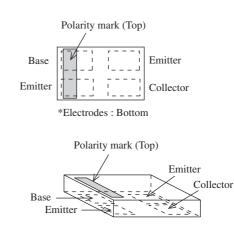
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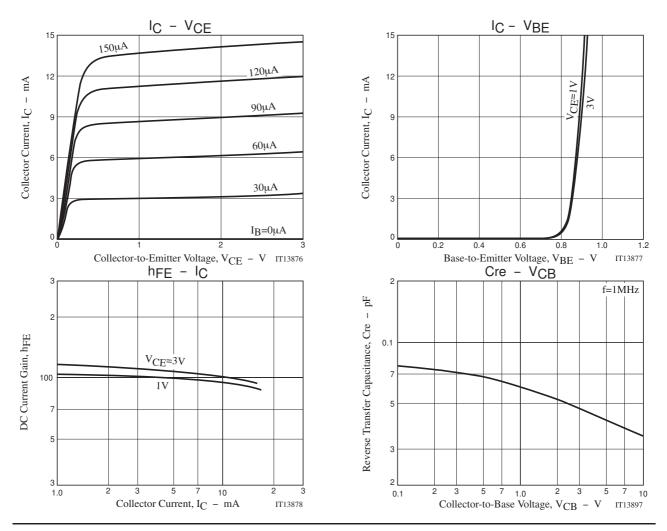
Package Dimensions

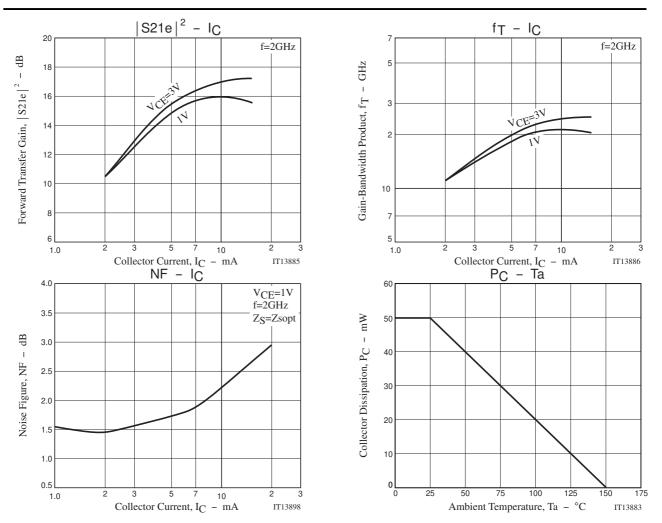
unit : mm (typ) 7036-002



Electrical Connection (Top view)







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