

捷多邦,专业PCB打样工厂,24小时加急出货

Ordering number:EN3195

NPN Epitaxial Planar Silicon Transistor

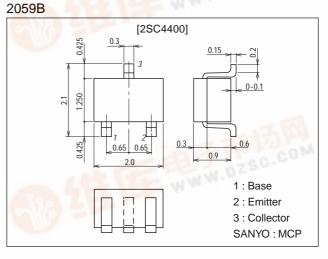


Features

- · High power gain.
- · High cutoff frequency.
- · Small Cob, Cre.
- Very small-sized package permitting the 2SC4400applied sets to be made small and slim.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		40	V
Collector-to-Emitter Voltage	VCEO		18	V
Emitter-to-Base Voltage	V _{EBO}		3	V
Collector Current	ΙC		50	mA
Collector Dissipation	PC		150	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	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =18V, I _E =0			0.1	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =2V, I _C =0			0.1	μA
D <mark>C Current</mark> Gain	hFE	V _{CE} =10V, I _C =5mA	60*		270*	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =5mA		750		MHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz	121-	0.7	1.2	pF
Reverse transfer Capacitance	C _{re}	V _{CB} =10V, f=1MHz		0.45		pF

* : The 2SC4400 is classified by 5mA h_{FE} as follows : 60 3 120 90 4 180 135 5 270 Marking : RT

 h_{FE} rank : 3, 4, 5

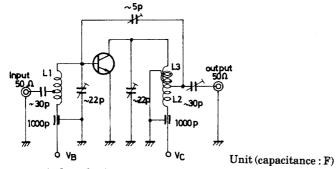
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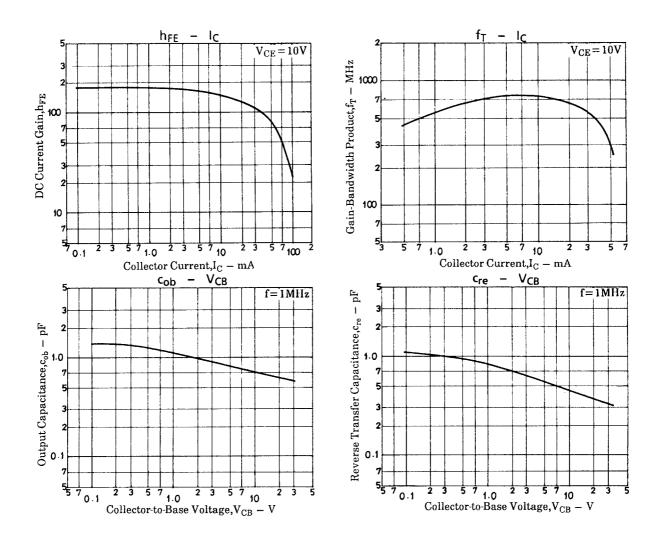
SANYO Electric Co., Ltd. Semiconductor Bussiness Headquaters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

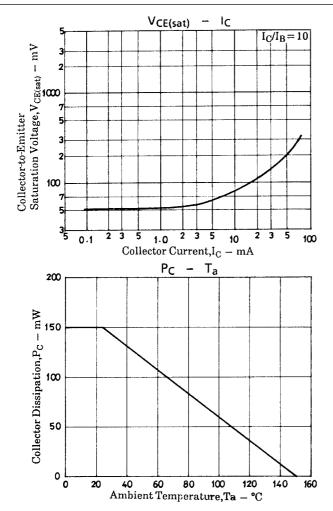
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =10mA, I _B =1mA			0.2	V
Base-to-Collector Time Constant	r _{bb} 'C _c	V _{CB} =10V, I _C =5mA, f=31.9MHz			23	ps
Power Gain	PG	V _{CB} =10V, I _C =10mA, f=100MHz		28		dB

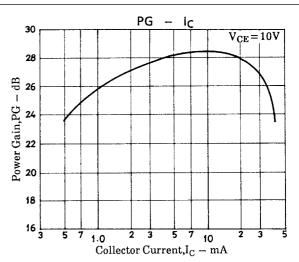
PG Test Circuit



- L₁ : 1mmø plated wire, 10mmø 5T, pitch 15mm, tap : 2T from base side
- L_2 : 1mmø plated wire, 10mmø 7T, pitch 10mm, tap : 2T from V_C side
- L_3 : 1mmø enamel wire, 10mmø 3T, pitch 10mm







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