

Transistor

Panasonic

2SB1288

Silicon PNP epitaxial planer type

For low-frequency power amplification

For DC-DC converter

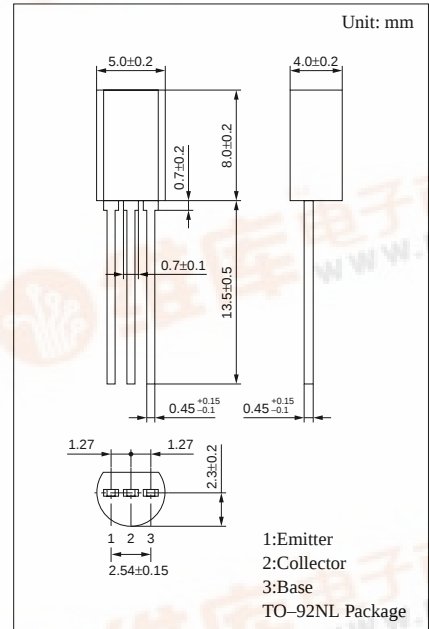
For stroboscope

Features

- Low collector to emitter saturation voltage $V_{CE(sat)}$.
- Large collector current I_C .
- Allowing supply with the radial taping.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-30	V
Collector to emitter voltage	V_{CEO}	-20	V
Emitter to base voltage	V_{EBO}	-7	V
Peak collector current	I_{CP}	-10	A
Collector current	I_C	-5	A
Collector power dissipation	P_C	1	W
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -10V, I_E = 0$			-100	nA
Emitter cutoff current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-100	nA
Collector to emitter voltage	V_{CEO}	$I_C = -1mA, I_B = 0$	-20			V
Emitter to base voltage	V_{EBO}	$I_E = -10\mu A, I_C = 0$	-7			V
Forward current transfer ratio	h_{FE}^{*1}	$V_{CE} = -2V, I_C = -2A^{*2}$	90		625	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = -3A, I_B = -0.1A^{*2}$			-1	V
Transition frequency	f_T	$V_{CB} = -6V, I_E = 50mA, f = 200MHz$		120		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -20V, I_E = 0, f = 1MHz$			85	pF

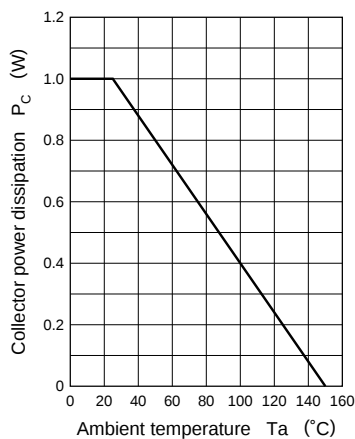
^{*2} Pulse measurement

^{*1} h_{FE} Rank classification

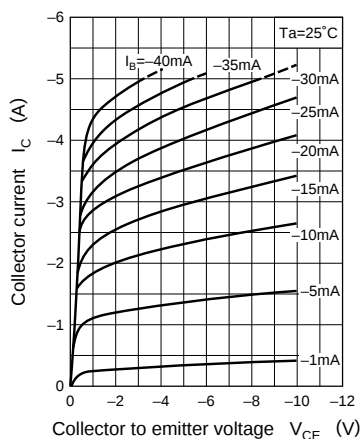
Rank	P	Q	R
h_{FE}	90 ~ 135	120 ~ 205	180 ~ 625



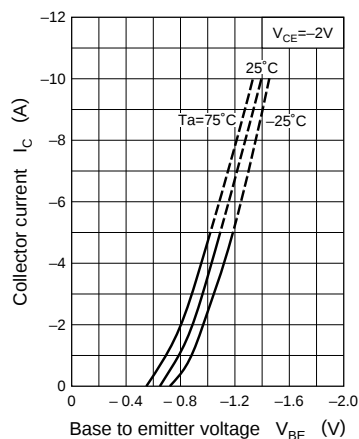
$P_C - T_a$



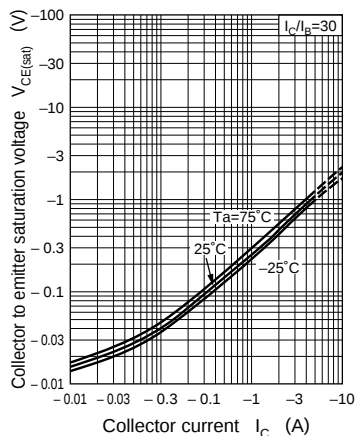
$I_C - V_{CE}$



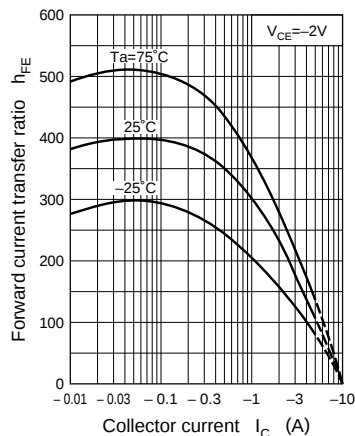
$I_C - V_{BE}$



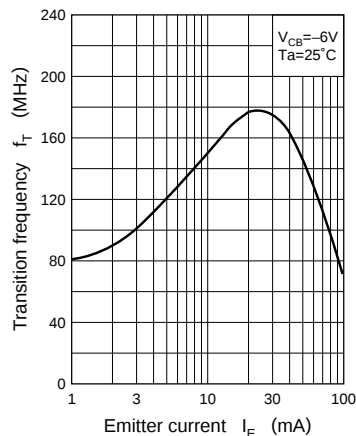
$V_{CE(\text{sat})} - I_C$



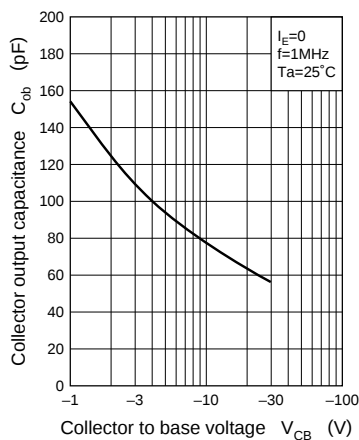
$h_{FE} - I_C$



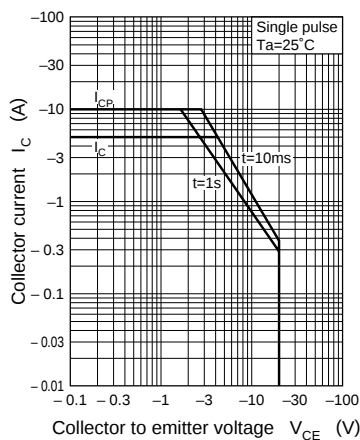
$f_T - I_E$



$C_{ob} - V_{CB}$



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