Transistor Panasonic

2SB1209

Silicon PNP triple diffusion planer type

For low-frequency amplification

Features

- High collector to base voltage V_{CBO}.
- High collector to emitter voltage V_{CEO}.
- ullet Low collector to emitter saturation voltage $V_{\text{CE(sat)}}$.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	-400	V	
Collector to emitter voltage	V_{CEO}	-400	V	
Emitter to base voltage	$V_{\rm EBO}$	-5	V	
Peak collector current	I_{CP}	-200	mA	
Collector current	I_{C}	-100	mA	
Collector power dissipation	${P_C}^*$	1	W	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	−55 ~ +150	°C	

 $^{^{\}ast}$ Printed circuit board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion

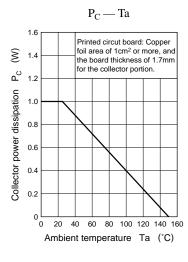
Unit: mm 6.9±0.1 1.5 R0.9 0.85 0.85 0.85 1:Base 2:Collector EIAJ:SC-71 3:Emitter M Type Mold Package

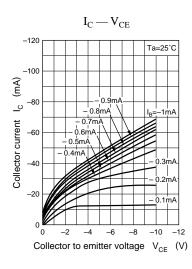
■ Electrical Characteristics (Ta=25°C)

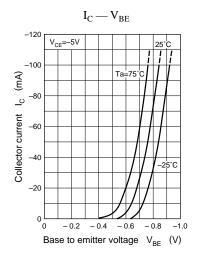
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V _{CBO}	$I_{\rm C} = -100 \mu {\rm A}, \ I_{\rm E} = 0$	-400			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = -500 \mu A, I_{\rm B} = 0$	-400			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = -100 \mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio	h _{FE}	$V_{CE} = -5V, I_C = -30mA$	40			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{C} = -10mA, I_{B} = -1mA$			- 0.6	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = -50 \text{mA}, I_B = -5 \text{mA}$			-1.5	V
Transition frequency	f_{T}	$V_{CB} = -30V$, $I_E = 20mA$, $f = 200MHz$		50		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -30V, I_E = 0, f = 1MHz$			9	pF

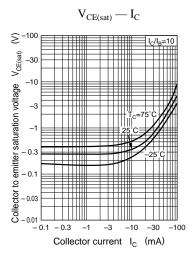
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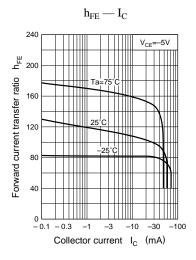
Transistor 2SB1209

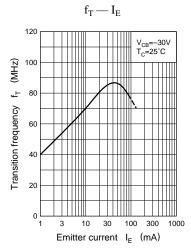


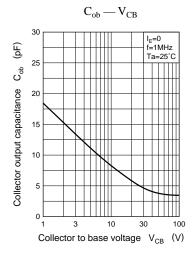




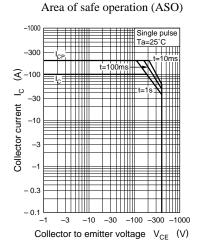








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