Transistor Panasonic

2SD2259

Silicon NPN epitaxial planer type

For low-frequency amplification

Features

- High foward current transfer ratio h_{FE}.
- Low collector to emitter saturation voltage V_{CE(sat)}.
- Allowing supply with the radial taping.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	20	V	
Collector to emitter voltage	V_{CEO}	20	V	
Emitter to base voltage	$V_{\rm EBO}$	15	V	
Peak collector current	I_{CP}	1.5	A	
Collector current	I_{C}	0.7	A	
Collector power dissipation	P _C *	1	W	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	−55 ~ +150	°C	

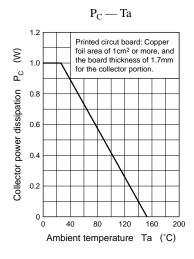
^{*} Printed circuit board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion

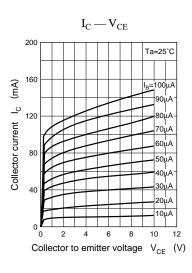
Electrical Characteristics (Ta=25°C)

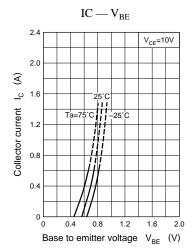
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 15V, I_E = 0$			1	μA
	I_{CEO}	$V_{CE} = 15V, I_{B} = 0$			10	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = 10 \mu A, I_{\rm E} = 0$	20			V
Collector to emitter voltage	V _{CEO}	$I_{C} = 1 \text{mA}, I_{B} = 0$	20			V
Emitter to base voltage	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	15			V
Forward current transfer ratio	h _{FE}	$V_{CE} = 10V, I_{C} = 150mA^{*}$	1000		2500	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 500 \text{mA}, I_B = 50 \text{mA}^*$		0.15	0.4	V
Transition frequency	f_{T}	$V_{CB} = 20V, I_E = -20mA, f = 200MHz$		55		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		10	15	pF

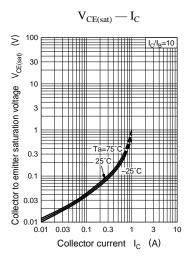
^{*2} Pulse measurement

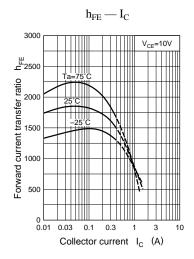
Transistor 2SD2259

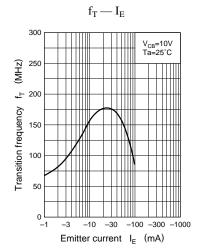


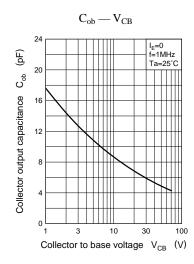












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