Panasonic

2SC4787

Silicon NPN epitaxial planer type

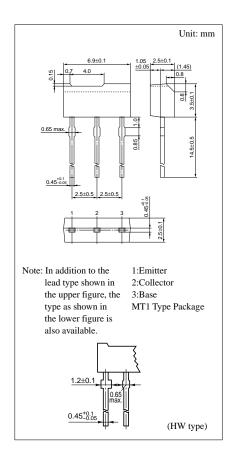
For intermediate frequency amplification

Features

- High transition frequency f_T.
- Satisfactory linearity of forward current transfer ratio h_{FE}.
- Allowing supply with the radial taping.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	45	V	
Collector to emitter voltage	V_{CEO}	35	V	
Emitter to base voltage	V _{EBO}	4	V	
Collector current	I_{C}	50	mA	
Collector power dissipation	P_{C}	600	mW	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	−55 ~ +150	°C	

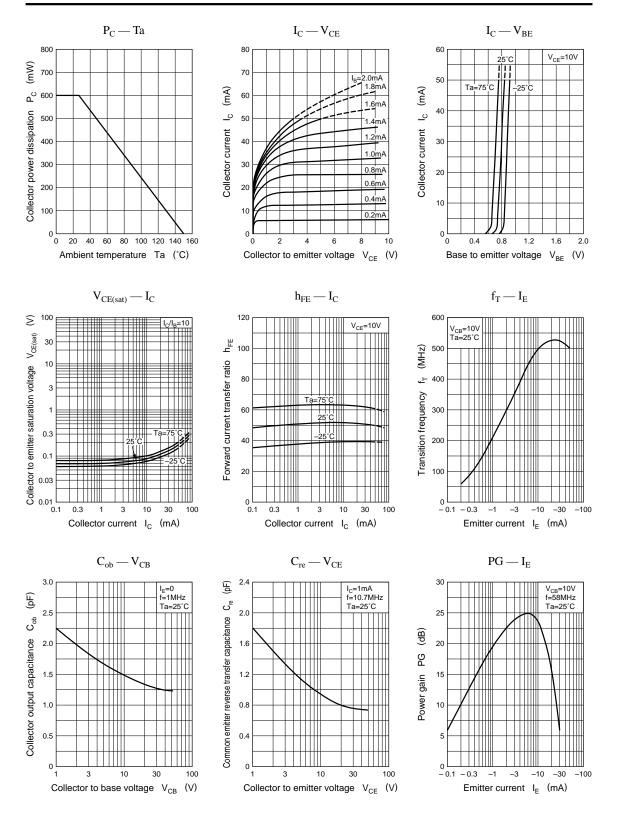


Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 20V, I_{E} = 0$			0.1	μА
Collector to base voltage	V _{CBO}	$I_{\rm C} = 100 \mu {\rm A}, I_{\rm E} = 0$	45			V
Collector to emitter voltage	V _{CEO}	$I_C = 1 \text{mA}, I_B = 0$	35			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 100 \mu A, I_{\rm C} = 0$	4			V
Forward current transfer ratio	h _{FE}	$V_{CE} = 10V, I_{C} = 10mA$	20	50	100	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 20\text{mA}, I_B = 2\text{mA}$			0.5	V
Common emitter reverse transfer capacitance	C _{re}	$V_{CB} = 10V, I_E = -1mA, f = 10.7MHz$			1.5	pF
Power gain	PG	$V_{CB} = 10V, I_{E} = -10mA, f = 58MHz$	18			dB
Transition frequency	f_T	$V_{CB} = 10V, I_E = -10mA, f = 100MHz$	300	500		MHz

Panasonic 1

Transistor 2SC4787



2

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