Transistor Panasonic

2SD2441

Silicon NPN epitaxial planer type

For low-frequency output amplification

Features

 Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	10	V
Collector to emitter voltage	V_{CEO}	10	V
Emitter to base voltage	V_{EBO}	7	V
Peak collector current	I_{CP}	2	A
Collector current	I_{C}	1.5	A
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 4.5±0.1 1.

Marking symbol: 1V

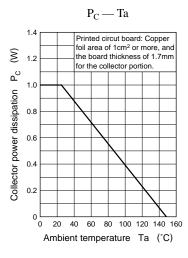
Electrical Characteristics (Ta=25°C)

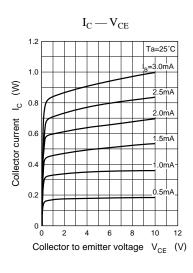
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 7V, I_{E} = 0$			1	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = 10 \mu {\rm A}, I_{\rm E} = 0$	10			V
Collector to emitter voltage	V _{CEO}	$I_C = 1 \text{mA}, I_B = 0$	10			V
Emitter to base voltage	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	7			V
Forward current transfer ratio	h _{FE}	$V_{CE} = 1V, I_{C} = 400 \text{mA}^{*2}$	200		700	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 1A, I_B = 25mA^{*2}$		0.17	0.25	V
Transition frequency	f_T	$V_{CB} = 60V, I_E = -50mA, f = 200MHz$		190		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_{E} = 0, f = 1MHz$		50		pF
Forward voltage	V_F^{*1}	$I_F = 500 \text{mA}$			1.3	V

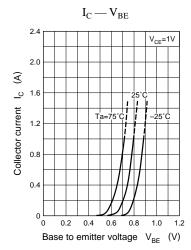
^{*1} Applicable to the built-in diode.

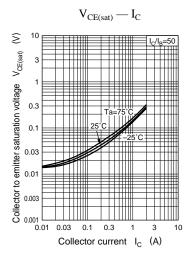
^{*2} Pulse measurement

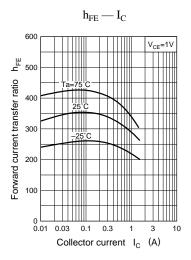
Transistor 2SD2441

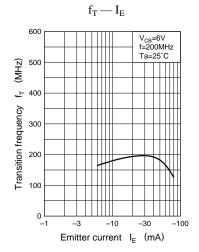


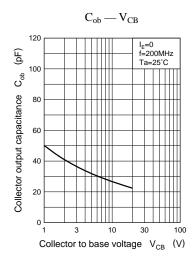












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