2SB0790 (2SB790)

Silicon PNP epitaxial planer type

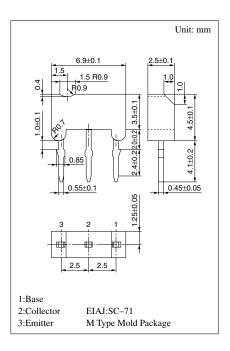
For low-frequency output amplification Complementary to 2SD0969 (2SD969)

Features

- Low collector to emitter saturation voltage V_{CE(sat)}.
- M type package allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-25	V
Collector to emitter voltage	V_{CEO}	-20	V
Emitter to base voltage	V_{EBO}	-7	V
Peak collector current	I_{CP}	-1	A
Collector current	I_{C}	- 0.5	A
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}	$V_{CB} = -25V, I_E = 0$			-100	nA
	I_{CEO}	$V_{CE} = -20V, I_B = 0$			-1	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-25			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = -1 \text{mA}, I_{\rm B} = 0$	-20			V
Emitter to base voltage	V_{EBO}	$I_{\rm C} = -10\mu A, I_{\rm C} = 0$	-7			V
Forward current transfer ratio	h _{FE1} *1	$V_{CE} = -2V, I_C = -0.5A^{*2}$	90		220	
	h _{FE2}	$V_{CE} = -2V, I_C = -1A^{*2}$	25			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -500 \text{mA}, I_B = -50 \text{mA}^{*2}$			- 0.4	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = -500 \text{mA}, I_B = -50 \text{mA}^{*2}$			-1.2	V
Transition frequency	f _T	$V_{CB} = -10V$, $I_E = 50$ mA, $f = 200$ MHz		150		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$		15	25	pF

^{*2} Pulse measurement

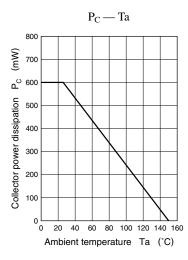
^{*1}hFE1 Rank classification

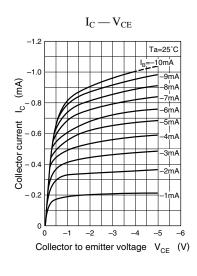
Rank	Q	R
h _{FE1}	90 ~ 155	130 ~ 220

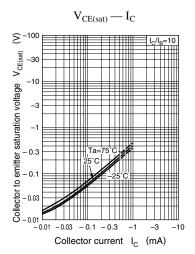
Note.) The Part number in the Parenthesis shows conventional part number.

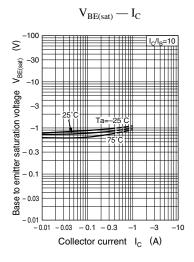
Panasonic 1

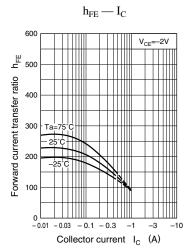
Transistor 2SB0790

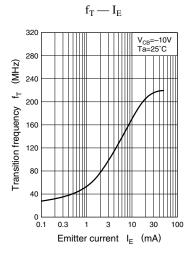


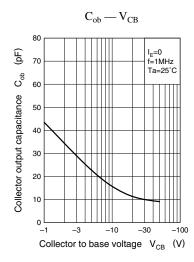












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