# 2SB0788 (2SB788)

### Silicon PNP epitaxial planer type

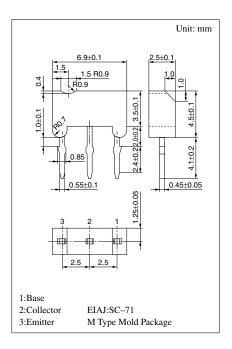
For high breakdown voltage low-noise amplification Complementary to 2SD0958 (2SD958)

#### Features

- High collector to emitter voltage V<sub>CEO</sub>.
- Low noise voltage NV.
- 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	$V_{CBO}$	-120	V
Collector to emitter voltage	$V_{CEO}$	-120	V
Emitter to base voltage	$V_{EBO}$	-7	V
Peak collector current	$I_{CP}$	-50	mA
Collector current	$I_{C}$	-20	mA
Collector power dissipation	$P_{C}$	400	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	<b>−55 ~ +150</b>	°C



#### Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = -50V, I_{E} = 0$			-100	nA
	I <sub>CEO</sub>	$V_{CE} = -50V, I_{B} = 0$			-1	μA
Collector to base voltage	V <sub>CBO</sub>	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-120			V
Collector to emitter voltage	V <sub>CEO</sub>	$I_C = -1 \text{mA}, I_B = 0$	-120			V
Emitter to base voltage	V <sub>EBO</sub>	$I_E = -10\mu A, I_C = 0$	-7			V
Forward current transfer ratio	h <sub>FE</sub> *	$V_{CE} = -5V, I_{C} = -2mA$	180		700	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -20 \text{mA}, I_B = -2 \text{mA}$			- 0.6	V
Transition frequency	$f_{T}$	$V_{CB} = -5V, I_E = 2mA, f = 200MHz$		150		MHz
Noise voltage	NV	$V_{CE} = 40V$ , $I_{C} = -1mA$ , $G_{V} = 80dB$ , $R_{\varphi} = 100k\Omega$ , Function = FLAT			150	mV

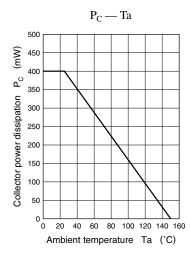
#### \*hFE Rank classification

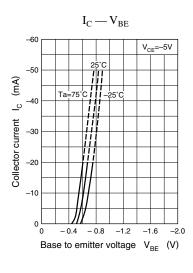
Rank	R	S	T
$h_{FE}$	180 ~ 360	260 ~ 520	360 ~ 700

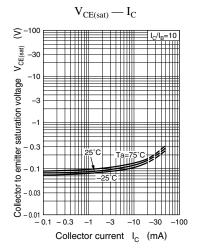
Note.) The Part number in the Parenthesis shows conventional part number.

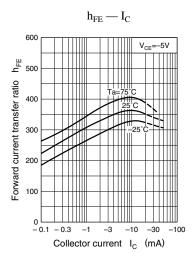
Panasonic 1

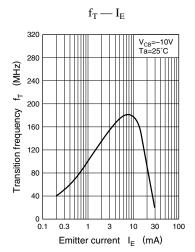
Transistor 2SB0788

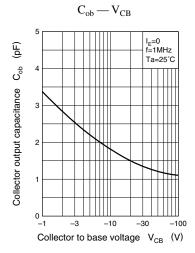


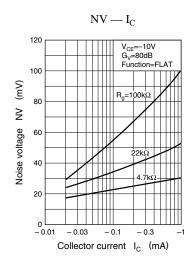












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