# 2SB0788 (2SB788)

### Silicon PNP epitaxial planar type

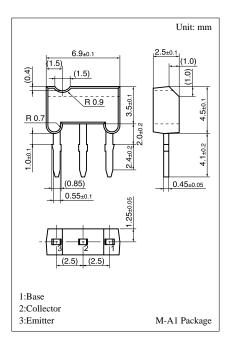
For high breakdown voltage low-noise amplification Complementary to 2SD0958 (2SD958)

#### 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.

Parameter	Symbol	Ratings	Unit				
Collector to base voltage	V <sub>CBO</sub>	-120	V				
Collector to emitter voltage	V <sub>CEO</sub>	-120	V				
Emitter to base voltage	V <sub>EBO</sub>	_7	V				
Peak collector current	I <sub>CP</sub>	-50	mA				
Collector current	I <sub>C</sub>	-20	mA				
Collector power dissipation	P <sub>C</sub>	400	mW				
Junction temperature	Tj	150	°C				
Storage temperature	T <sub>stg</sub>	-55 ~ +150	°C				

#### Absolute Maximum Ratings (Ta=25°C)



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

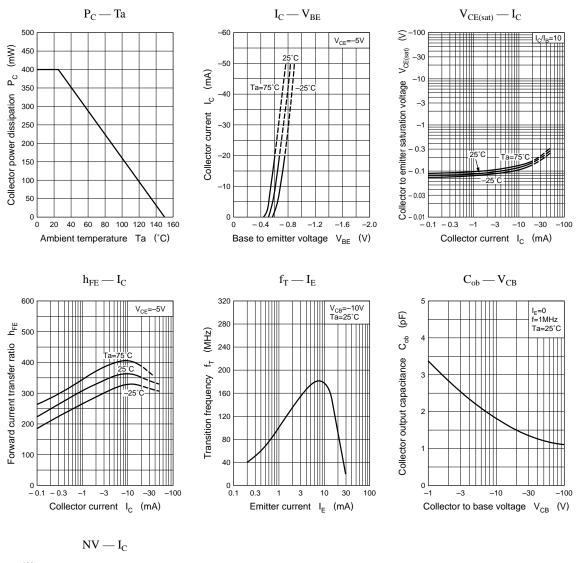
Parameter	Symbol	Conditions	min	typ	max	Unit
	I <sub>CBO</sub>	$V_{CB} = -50V, I_E = 0$			-100	nA
Collector cutoff current	I <sub>CEO</sub>	$V_{CE} = -50V, I_B = 0$			-1	μA
Collector to base voltage	V <sub>CBO</sub>	$I_{C} = -10 \mu A, I_{E} = 0$	-120			v
Collector to emitter voltage	V <sub>CEO</sub>	$I_{\rm C} = -1 {\rm mA},  I_{\rm B} = 0$	-120			v
Emitter to base voltage	V <sub>EBO</sub>	$I_{\rm E} = -10 \mu A, I_{\rm C} = 0$	_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>	$I_{\rm C} = -20 {\rm mA}, \ I_{\rm B} = -2 {\rm mA}$			- 0.6	v
Transition frequency	f <sub>T</sub>	$V_{CB} = -5V, I_E = 2mA, f = 200MHz$		150		MHz
Noise voltage	NV	$V_{CE} = 40V, I_C = -1mA, G_V = 80dB,$ $R_g = 100k\Omega$ , Function = FLAT			150	mV

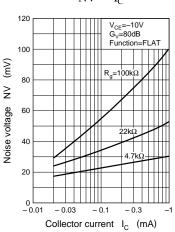
#### \*hFE Rank classification

Rank	R	S	Т
h <sub>FE</sub>	180 ~ 360	260 ~ 520	360 ~ 700

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

## Panasonic





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