2SD0958 (2SD958)

Silicon NPN epitaxial planer type

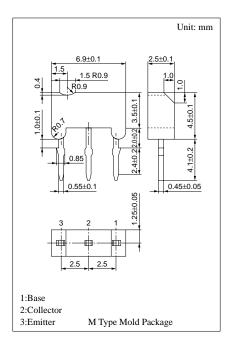
For high breakdown voltage and low-noise amplification Complementary to 2SB0788 (2SB788)

Features

- High collector to emitter voltage V_{CEO}.
- 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 _j	150	°C
Storage temperature	$T_{\rm stg}$	−55 ~ +150	°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
Collector cutoff current	I _{CEO}	$V_{CE} = 50V, I_B = 0$			1	μА
Collector to base voltage	V _{CBO}	$I_C = 10\mu A, I_E = 0$ 120				V
Collector to emitter voltage	V _{CEO}	$I_C = 1 \text{mA}, I_B = 0$	120			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	7			V
Forward current transfer ratio	h _{FE} *	$V_{CE} = 5V$, $I_C = 2mA$	180		700	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{C} = 20\text{mA}, I_{B} = 2\text{mA}$		0.6	V	
Transition frequency	f_T	$V_{CB} = 5V$, $I_E = -2mA$, $f = 200MHz$	$_{B} = 5V, I_{E} = -2mA, f = 200MHz$ 200			MHz
Noise voltage	NV	$V_{CE} = 40V, I_C = 2mA, G_V = 80dB$ $R_g = 100k\Omega, Function = FLAT$			150	mV

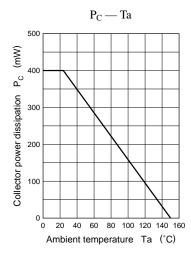
*h_{FE} Rank classification

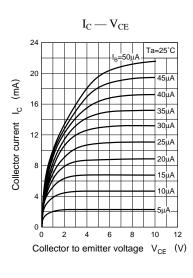
Rank	R	S	Т
h_{FE}	180 ~ 360	260 ~ 520	360 ~ 700

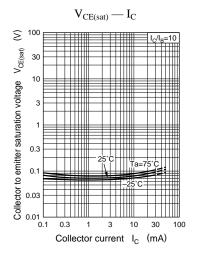
Note.) The Part number in the Parenthesis shows conventional part number.

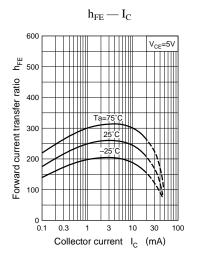
566 Panasonic

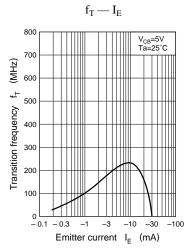
Transistor 2SD0958

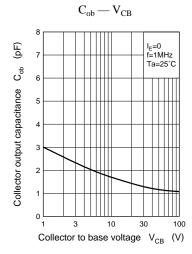


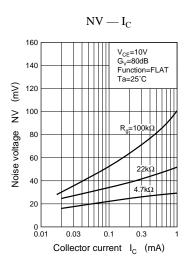












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