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Description

• General small signal amplifier

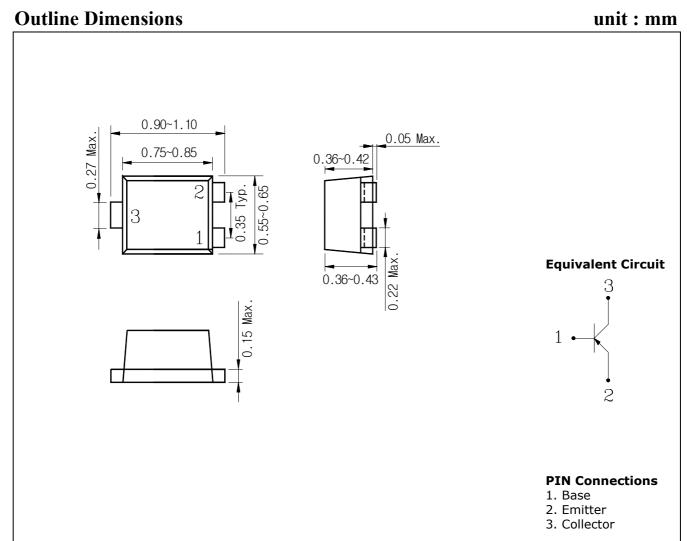
Features

- Low collector saturation voltage : $V_{CE(sat)}$ =-0.15V(Max.)
- Extremely small size package: 0.8x0.6x0.4 mm Typ.
- Complementary pair with NT331

Ordering Information

Type NO.	Marking	Package Code
NT332	P	SOT-923

 \square :h_{FE} rank



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-20	V
Collector-emitter voltage	V _{CEO} -20		V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_{C}	-50	mA
Collector power dissipation	P _C	50	mW
Junction temperature	T ₁	150	°C
Storage temperature range	T_{stg}	-55~150	°C

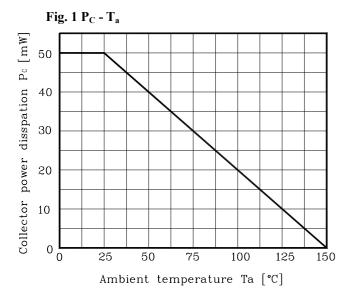
Electrical Characteristics

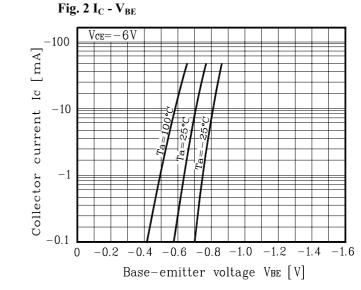
(Ta=25°C)

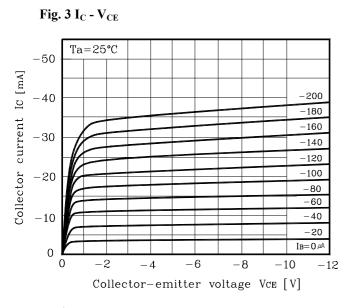
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=-1$ mA, $I_B=0$	-20	-	-	V
Collector cut-off current	I_{CBO}	V_{CB} =-20V, I_{E} =0	-	1	-0.1	μΑ
Emitter cut-off current	I_{EBO}	V_{EB} =-5V, I_C =0	-	-	-0.1	μА
DC current gain	h _{FE} *	V_{CE} =-6V, I_{C} =-2mA	120	-	400	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C =-50mA, I_B =-5mA	-	-	-0.15	V
Base-emitter voltage	V_{BE}	V_{CE} =-6V, I_{C} =-2mA	-	-0.7	-0.9	V
Transition frequency	f _T	V_{CE} =-10V, I_{C} =-10mA	-	200	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_{E} =0, f=1MHz	-	4	-	pF

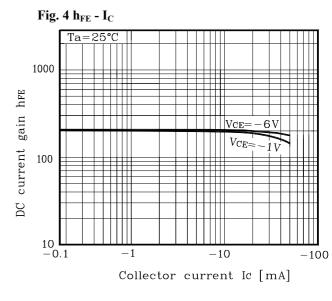
^{*:} h_{FE} rank / Y : 120~240, G : 200~400

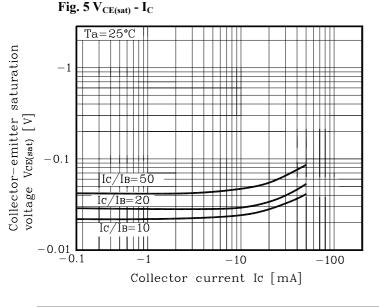
Electrical Characteristic Curves

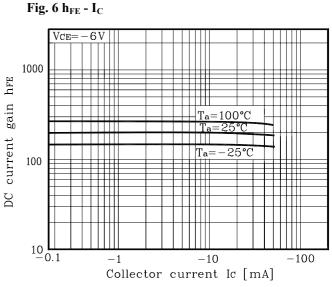












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