

**NT332** 

Emitter 2

Collector

3

**PNP Silicon Transistor** 

Base

1

SOT-923

#### Description

• General small signal amplifier

#### **Features**

- Low collector saturation voltage : V<sub>CE(sat)</sub>=-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	

 $\Box$ : h<sub>FE</sub> rank

### Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25°C)
Characteristic	Symbol	Rating	Unit
Collector-base voltage	V <sub>CBO</sub>	-20	V
Collector-emitter voltage	V <sub>CEO</sub>	-20	V
Emitter-base voltage	V <sub>EBO</sub>	-5	V
Collector current	Ι <sub>C</sub>	-50	mA
Collector power dissipation	P <sub>C</sub>	50	mW
Junction temperature	TJ	150	°C
Storage temperature range	T <sub>stg</sub>	-55~150	°C

# **Electrical Characteristics**

<b>Electrical Characteristics</b>	-		-	-	(Ta=	=25°C)
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV <sub>CEO</sub>	$I_{C}$ =-1mA, $I_{B}$ =0	-20	-	-	V
Collector cut-off current	I <sub>CBO</sub>	$V_{CB}$ =-20V, $I_{E}$ =0	-	-	-0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	$V_{EB} = -5V, I_{C} = 0$	-	-	-0.1	μA
DC current gain	${\sf h}_{\sf FE}^{*}$	$V_{CE}$ =-6V, $I_C$ =-2mA	120	-	400	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I <sub>C</sub> =-50mA, I <sub>B</sub> =-5mA	-	-	-0.15	V
Base-emitter voltage	$V_{\text{BE}}$	$V_{CE}$ =-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 <sub>ob</sub>	$V_{CB}$ =-10V, $I_E$ =0, f=1MHz	-	4	-	pF

\*: h<sub>FE</sub> rank / Y : 120~240, G : 200~400

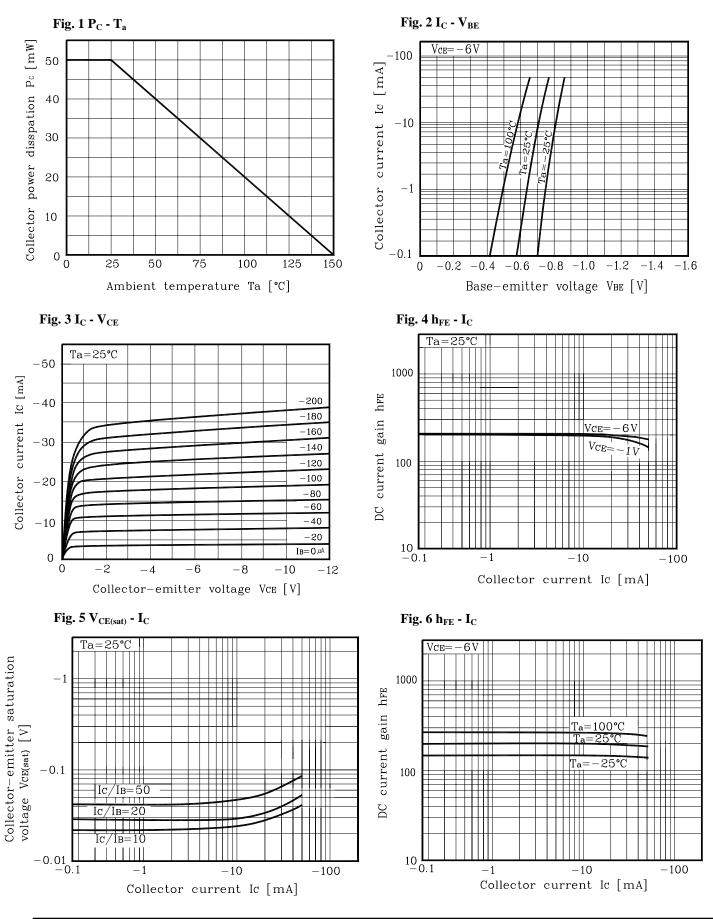
KSD-T5G002-001

#### **PIN Connection**

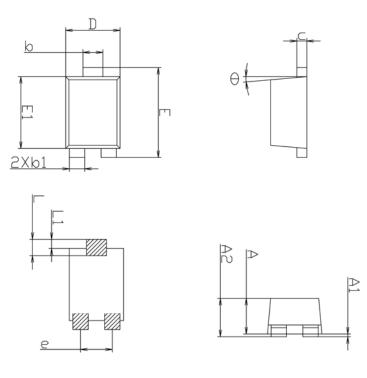
3

# NT332

# **Electrical Characteristic Curves**

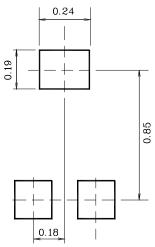


# **Outline Dimension**



SYMBOL	MILLIMETERS			NOTE
STRIBUL	MINIMUM	NOMINAL	MAXIMUM	NOTE
Α	0.39	0.40	0.41	
A1	-	-	0.05	
A2	-	-	0.43	
b	0.17	0.22	0.27	
b1	0.12	0.17	0.22	
С	0.08	0.11	0.14	
D	0.55	0.60	0.65	
E	0.90	1.00	1.10	
E1	0.75	0.80	0.85	
L	0.10	0.18	0.26	
L1	0.05	0.10	0.15	
e		0.35 BSC	-	
θ		5° REF		

#### \*Recommend PCB solder land [Unit: mm]



The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.