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AUK Semiconductor

NT358

PNP Silicon Transistor

Descriptions

- Switching application
- Interface circuit and driver circuit application

Features

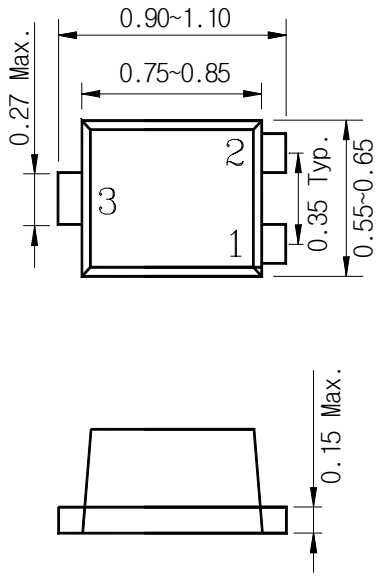
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary pair with NT357

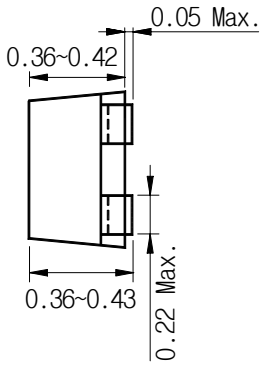
Ordering Information

Type NO.	Marking	Package Code
NT358	Q	SOT-923

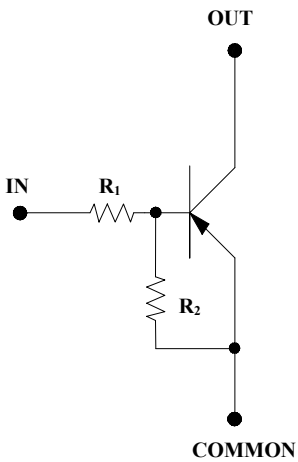
Outline Dimensions

unit : mm





• Equivalent Circuit



R_1	R_2
47KΩ	47KΩ

PIN Connections
1. IN
2. COMMON
3. OUT

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Absolute Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	V_O	-20	V
Input voltage	V_I	-20, 10	V
Output current	I_O	-50	mA
Power dissipation	P_D	50	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output cut-off current	$I_{O(OFF)}$	V_O=-20V, V_I=0	-	-	-500	nA
DC current gain	G_I	V_O=-5V, I_O=-10mA	90	-	-	-
Output voltage	$V_{O(ON)}$	I_O=-5mA, I_I=-0.25mA	-	-	-0.15	V
Input voltage (ON)	$V_{I(ON)}$	V_O=-0.2V, I_O=-5mA	-	-2.8	-5.0	V
Input voltage (OFF)	$V_{I(OFF)}$	V_O=-5V, I_O=-0.1mA	-1.0	-1.2	-	V
Transition frequency	f_T*	V_O=-10V, I_O=-5mA	-	200	-	MHz
Input current	I_I	V_I=-5V, I_O=0	-	-	-0.18	mA
Input resistor (Input to base)	R_1	-	33	47	61	KΩ
Input resistor (Base to common)	R_2	-	33	47	61	KΩ

* : Characteristic of transistor only

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Electrical Characteristic Curves

Fig. 1 I_O - $V_{I(ON)}$

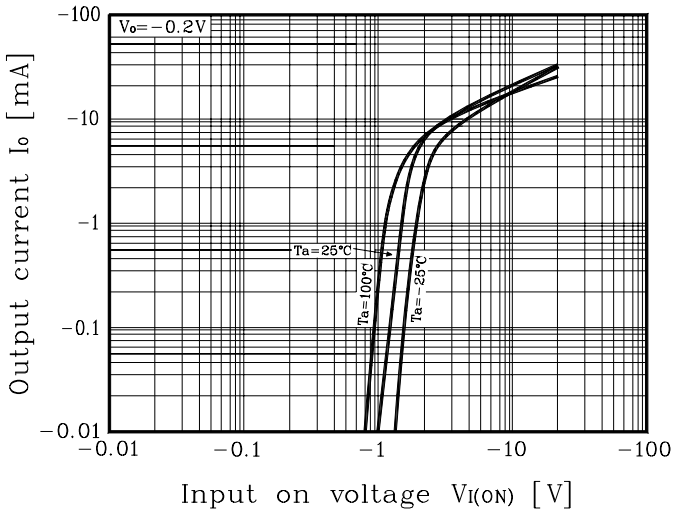


Fig. 2 I_O - $V_{I(OFF)}$

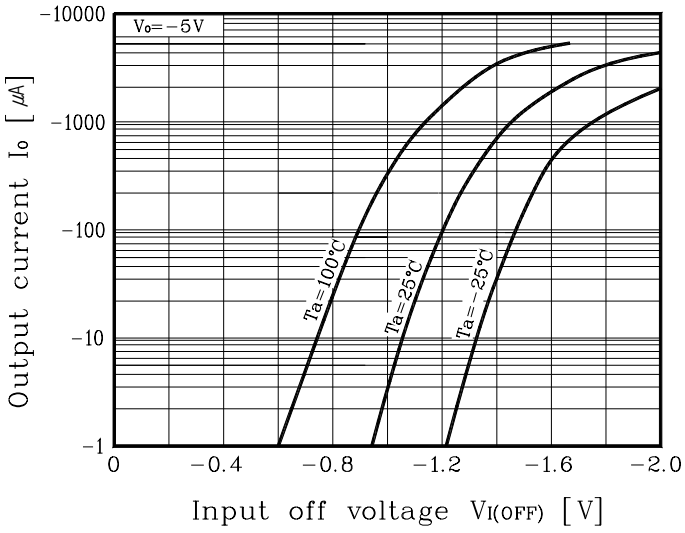
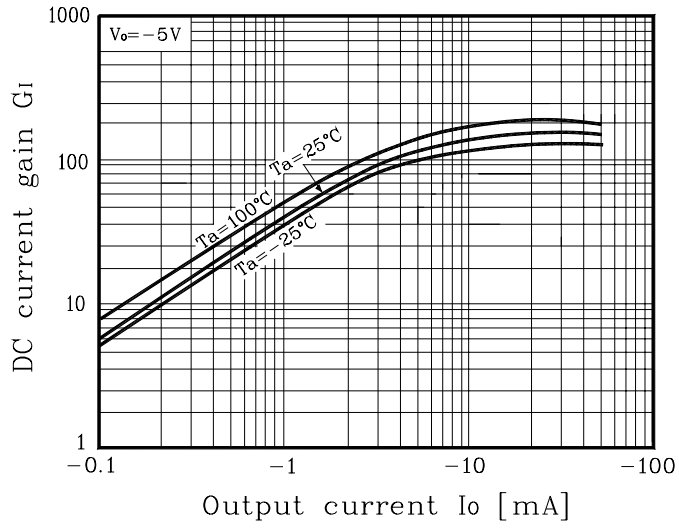


Fig. 3 G_I - I_O



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