

Descriptions

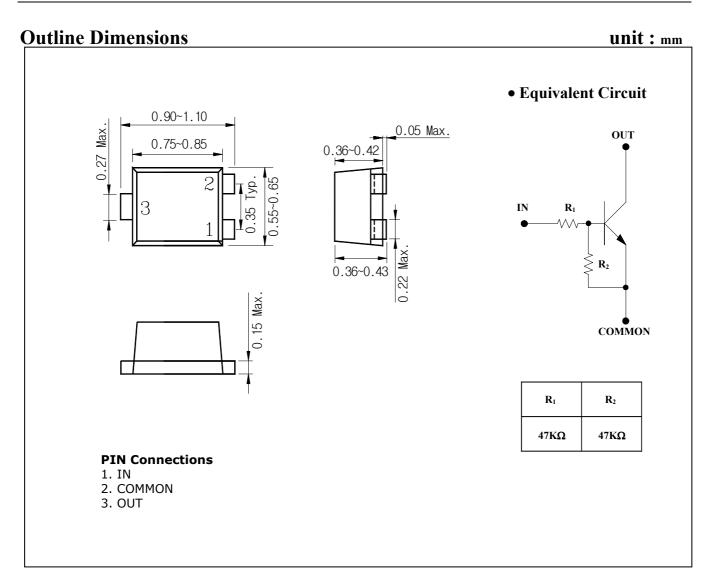
- Switching application
- Interface circuit and driver circuit application

Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary pair with NT358

Ordering Information

Type NO.	Marking	Package Code		
NT357	D	SOT-923		



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit	
Output voltage	Vo	20	V	
Input voltage	V _I 20,-10		V	
Output current	I_{O}	50	mA	
Power dissipation	P_{D}	50	mW	
Junction temperature	T ₁	150	°C	
Storage temperature range	T_{stg}	-55 ~ 150	°C	

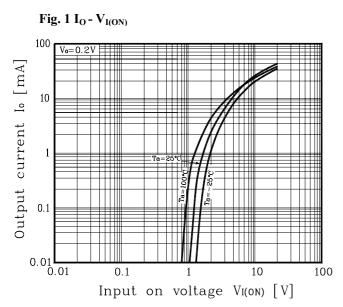
Electrical Characteristics

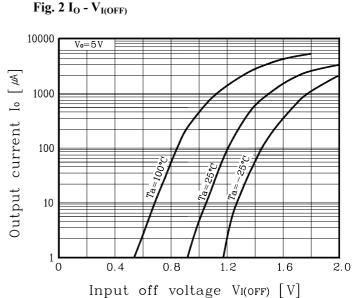
(Ta=25°C)

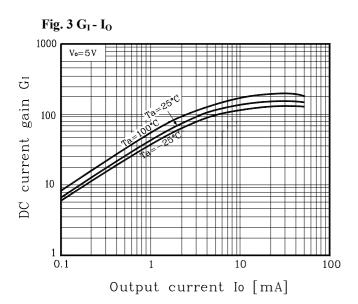
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output cut-off current	I _{O(OFF)}	$V_0 = 20V, V_I = 0$	ı	ı	500	nA
DC current gain	G_{I}	V _O =5V, I _O =10mA	90	ı	-	-
Output voltage	V _{O(ON)}	I_0 =5mA, I_I =0.25mA	ı	ı	0.15	٧
Input voltage (ON)	$V_{I(ON)}$	V _O =0.2V, I _O =5mA	ı	2.8	5.0	٧
Input voltage (OFF)	$V_{I(OFF)}$	$V_0 = 5V$, $I_0 = 0.1$ mA	1.0	1.2	-	V
Transition frequency	f _T *	$V_0=10V$, $I_0=5mA$	ı	200	-	MHz
Input current	I_{I}	$V_I=5V$, $I_O=0$	1	ı	0.18	mA
Input resistor (Input to base)	R ₁	-	33	47	61	K Ω
Input resistor (Base to common)	R ₂	-	33	47	61	K Ω

^{* :} Characteristic of transistor only

Electrical Characteristic Curves







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