

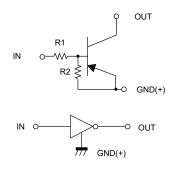
Features

- Built-In Bias Resistors Enable the Configuration of an Inverter Circuit Without Connecting External Input Resistors
- The Bias Resistors Consist of Thin-Film Resistors With Complete Isolation to Allow Negative Biasing of the Input. They Also Have the Advantage of Almost Completely Eliminating Parasitic Effects
- Only The On/Off Conditions Need to Be Set For Operation, Making Device Design Easy
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant.See Ordering Information)

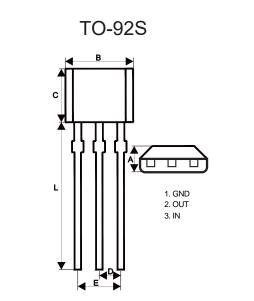
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}		-50		V
Input Voltage	V _{IN}	-40		10	V
Output Current	I _o		-50	-100	mA
Power Dissipation	P _D		300		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C

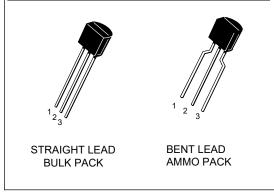
Internal Structure



PNP Digital Transistor



DIMENSIONS						
DIM	INCHES		M	IM	NOTE	
DIIVI	MIN MAX MI		MIN	MAX	NOIE	
Α	0.056	0.064	1.42	1.62		
В	0.154	0.161	3.90	4.10		
С	0.120	0.128	3.05	3.25		
D	0.050		1.27		Straight Lead	
D	0.086	0.110	2.20	2.80	Bent Lead	
Е	0.096	0.104	2.44	2.64	Straight Lead	
L	0.173	0.220	4.40	5.60	Bent Lead	
L	0.594	0.610	15.10	15.50		



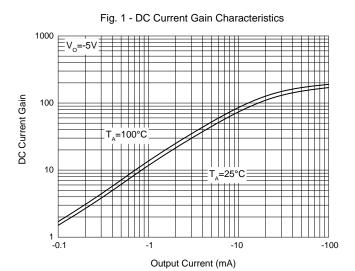


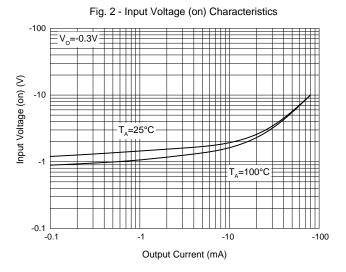
Electrical Characteristics @ 25°C Unless Otherwise Specified

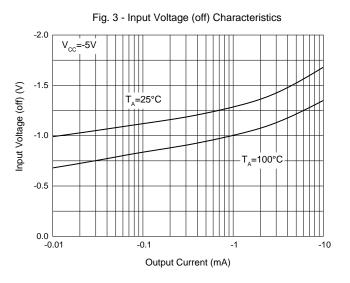
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	-0.5			V	V _{CC} =-5V, I _O =-100μA
	V _{I(on)}			-3.0	V	V _O =-0.3V, I _O =-10mA
Output Voltage	V _{O(on)}			-0.3	V	I _O =-10mA,I _I =-0.5mA
Input Current	I _I			-0.88	mA	V _I =-5V
Output Current	I _{O(off)}			-0.5	μA	V _{CC} =-50V, V _I =0
DC Current Gain	G	30				V_O =-5V, I_O =-5mA
Input Resistance	R ₁	7.0	10	13	ΚΩ	
Resistance Ratio	R ₂ /R ₁	0.8	1.0	1.2		
Transition Frequency	f _T		250		MHz	V _{CE} =-10V, I _E =5mA, f=100MHz

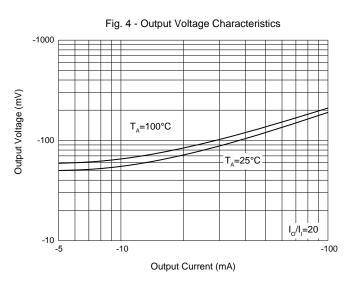


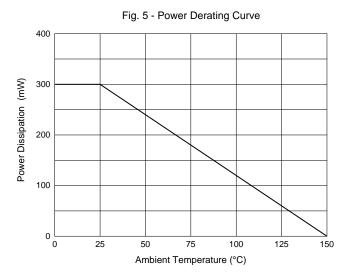
Curve Characteristics













Ordering Information

Device	Packing		
Part Number-AP	Ammo Packing: 30Kpcs/Carton		
Part Number-BP	Bulk: 100Kpcs/Carton		

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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