

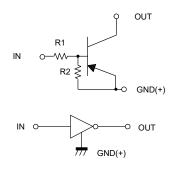
#### **Features**

- 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"
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant.See Ordering Information)

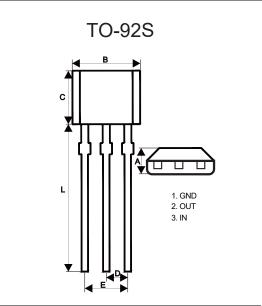
# Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V <sub>CC</sub>		-50		V
Input Voltage	V <sub>IN</sub>	-40		10	V
Outrast Comment	Io		-30		mA
Output Current	I <sub>C(Max)</sub>		-100		mA
Power Dissipation	P <sub>D</sub>		300		mW
Junction Temperature	TJ		150		°C
Storage Temperature	T <sub>stg</sub>	-55		150	°C

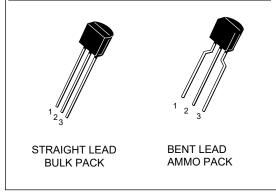
#### Internal Structure



# PNP Digital Transistor



DIMENSIONS					
DIM	INCHES		M	М	NOTE
DIIVI	MIN MAX MIN M.		MAX	INOTE	
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
_	0.173	0.220	4.40	5.60	Bent Lead
L	0.594	0.610	15.10	15.50	



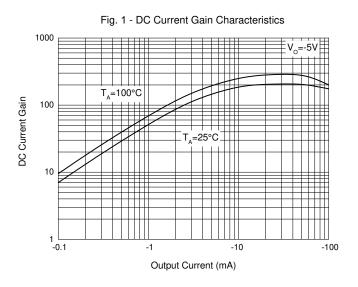


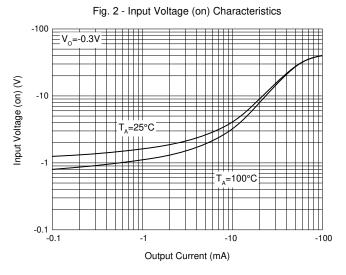
# Electrical Characteristics @ 25°C Unless Otherwise Specified

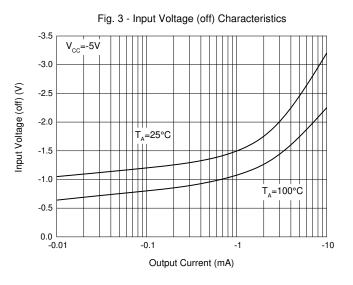
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	-0.5			V	V <sub>CC</sub> =-5V, I <sub>O</sub> =-100μA
	$V_{I(on)}$			-3.0	V	V <sub>O</sub> =-0.3V, I <sub>O</sub> =-2mA
Output Voltage	V <sub>O(on)</sub>			-0.3	V	I <sub>O</sub> =-10mA,I <sub>I</sub> =-0.5mA
Input Current	l <sub>l</sub>			-0.18	mA	V <sub>I</sub> =-5V
Output Current	I <sub>O(off)</sub>			-0.5	μA	V <sub>CC</sub> =-50V, V <sub>I</sub> =0
DC Current Gain	Gı	68				$V_O$ =-5V, $I_O$ =-5mA
Input Resistance	R <sub>1</sub>	32.9	47	61.1	ΚΩ	
Resistance Ratio	R <sub>2</sub> /R <sub>1</sub>	0.8	1.0	1.2		
Transition Frequency	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz

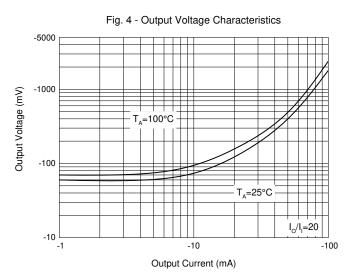


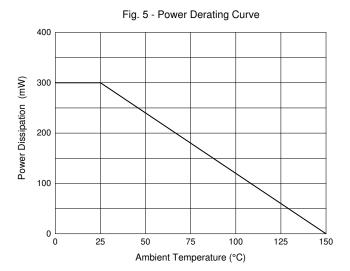
## **Curve Characteristics**













### **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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