

## 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. "Green" Device (Note 1)
- 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)

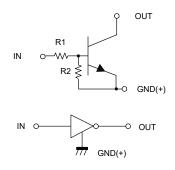
### Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V <sub>cc</sub>		50		V
Input Voltage	V <sub>IN</sub>	-10		40	V
Output Current-Continuous	I <sub>o</sub>		50		mA
Output Current-Pulsed	I <sub>C(Max)</sub>		100		mA
Power Dissipation	P <sub>D</sub>			246	mW
Junction Temperature	Τ <sub>J</sub>			150	°C
Storage Temperature	T <sub>stg</sub>	-55		150	°C

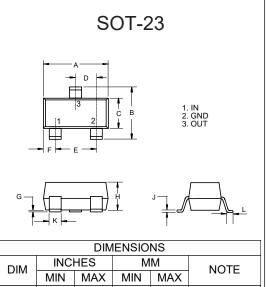
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

### Device Marking: 24

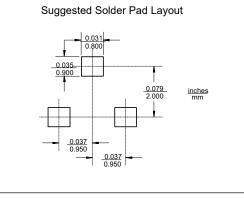
#### Internal Structure







DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	



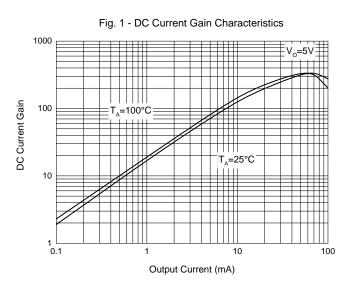


# Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	V <sub>I(off)</sub>	0.5			V	V <sub>CC</sub> =5V, I <sub>O</sub> =100µA
Input Voltage	V <sub>I(on)</sub>			3.0	V	V <sub>o</sub> =0.3V, I <sub>o</sub> =10mA
Output Voltage	V <sub>O(on)</sub>		0.1	0.25	V	I <sub>O</sub> =10mA,I <sub>I</sub> =0.3mA
Input Current	I <sub>I</sub>			0.88	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	35				V <sub>o</sub> =10V, I <sub>o</sub> =5mA
Input Resistance	R <sub>1</sub>	7.0	10	13	KΩ	
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**



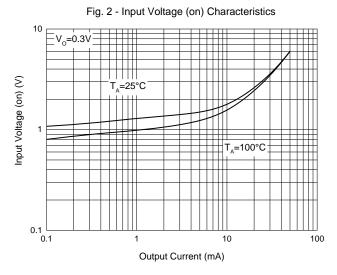
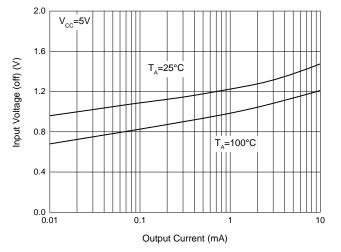
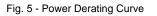


Fig. 3 - Input Voltage (off) Characteristics





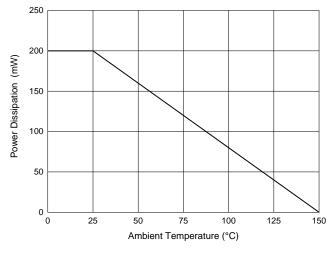
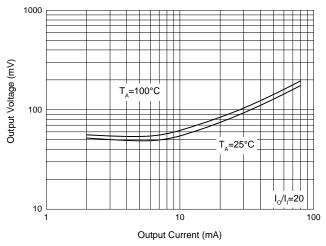


Fig. 4 - Output Voltage Characteristics





### **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel:3Kpcs/Reel		

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