

# 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)

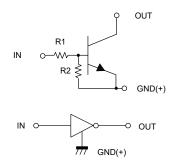
# Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Unit
Supply Voltage	V <sub>cc</sub>		50		V
Input Voltage	V <sub>IN</sub>	-10		40	V
Output Current	I <sub>o</sub>		100		mA
Power Dissipation	P <sub>D</sub>		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T <sub>stg</sub>	-55		150	°C

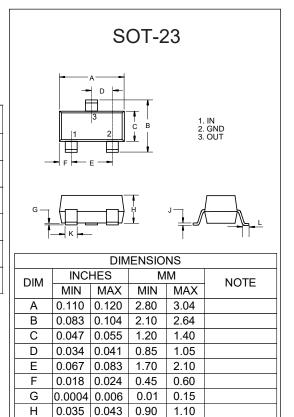
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

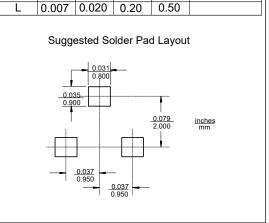
## Device Marking: 26

### Internal Structure









0.08

0.30

0.18

0.51

0.003

0.012

J

Κ

0.007

0.020



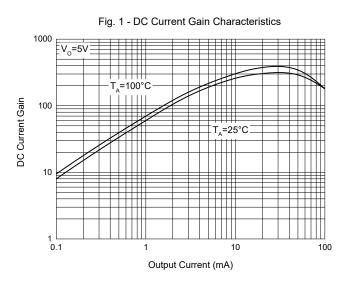
# Electrical Characteristics @ 25°C Unless Otherwise Specified

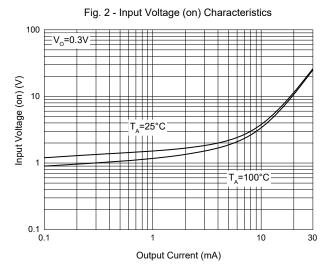
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
	V <sub>I(off)</sub>	0.5			V	V <sub>CC</sub> =5V, I <sub>O</sub> =100µA
Input Voltage	V <sub>I(on)</sub>			3.0	V	V <sub>0</sub> =0.3V, I <sub>0</sub> =2mA
Output Voltage	V <sub>O(on)</sub>			0.3	V	I <sub>o</sub> =10mA,I <sub>I</sub> =0.5mA
Input Current	I <sub>1</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				$V_0=5V, I_0=5mA$
Input Resistance	R <sub>1</sub>	32.9	47	61.1	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



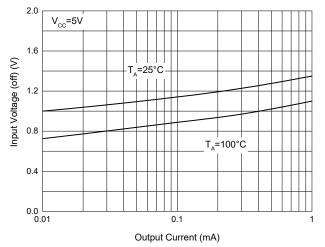


# **Curve Characteristics**





#### Fig. 3 - Input Voltage (off) Characteristics





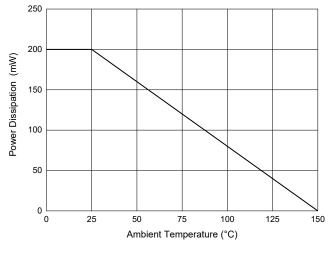
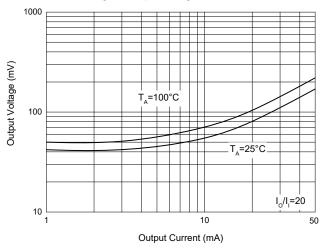


Fig. 4 - Output Voltage Characteristics





# **Ordering Information**

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

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