

## **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)

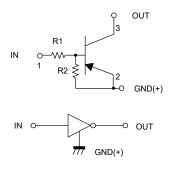
# Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V <sub>CC</sub>		-50		V
Input Voltage	V <sub>IN</sub>	-12		5	V
Output Current	Io		-100		mA
Output Current	I <sub>C(Max)</sub>		-100		mA
Power Dissipation	P <sub>D</sub>		150		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T <sub>stg</sub>	-55		150	°C

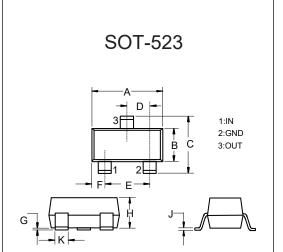
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

# Device Marking: E32

#### Internal Structure

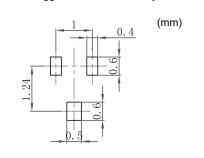


# PNP Digital Transistor



DIMENSIONS						
DIM	INCHES		М	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOIL	
Α	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020		0.50		TYP.	
Е	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

## Suggested Solder Pad Layout



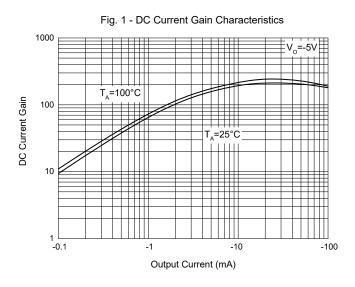


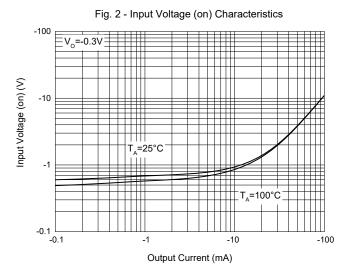
# Electrical Characteristics @ 25°C Unless Otherwise Specified

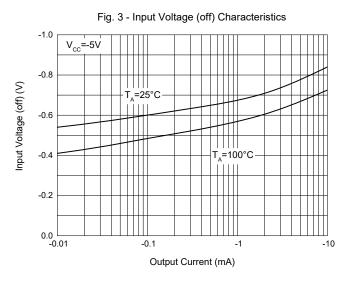
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
liament Malta ma	$V_{I(off)}$	-0.5			V	V <sub>CC</sub> =-5V, I <sub>O</sub> =-100μA
Input Voltage	V <sub>I(on)</sub>			-1.1	V	V <sub>O</sub> =-0.3V, I <sub>O</sub> =-5mA
Output Voltage	V <sub>O(on)</sub>			-0.3	V	I <sub>O</sub> =-5mA,I <sub>I</sub> =-0.25mA
Input Current	I <sub>1</sub>			-3.6	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	80				V <sub>O</sub> =-5V, I <sub>O</sub> =-10mA
Input Resistance	R <sub>1</sub>	1.54	2.2	2.86	ΚΩ	
Resistance Ratio	R <sub>2</sub> /R <sub>1</sub>	17	21	26		
Transition Frequency	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz

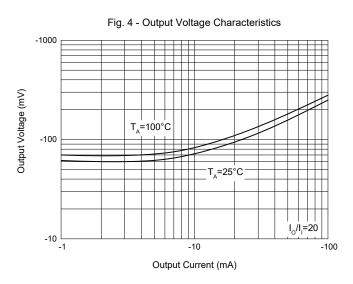


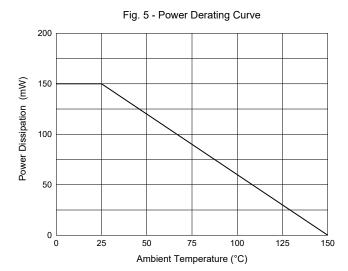
# **Curve Characteristics**













## **Ordering Information**

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

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