

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)

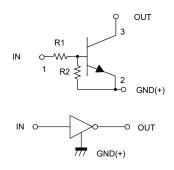
Maximum Ratings @ 25°C Unless Otherwise Specified

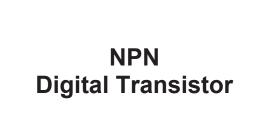
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{cc}		50		V
Input Voltage	V _{IN}	-10		40	V
Quitaut Quirrant	Ι _ο		30		mA
Output Current	I _{C(Max)}		100		mA
Power Dissipation	P _D		150		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C

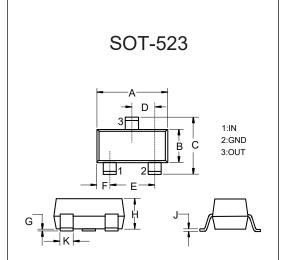
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: 25

Internal Structure

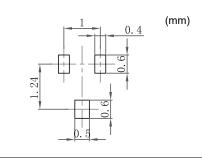






- 1							
		DIMENSIONS					
	DIM	INCHES		Μ	М	NOTE	
	DIIVI	MIN	MAX	MIN	MAX	NOTE	
	Α	0.059	0.067	1.50	1.70		
	В	0.030	0.033	0.75	0.85		
	С	0.057	0.069	1.45	1.75		
	D	0.020		0.	50	TYP.	
	E	0.035	0.043	0.90	1.10		
	G	0.000	0.004	0.00	0.10		
	Н	0.024	0.031	0.60	0.80		
	J	0.004	0.008	0.10	0.20		
	K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout





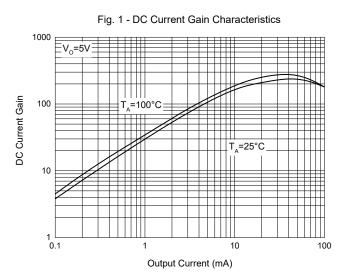
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Unit	Conditions
Input Voltage	V _{I(off)}	0.5			V	V _{CC} =5V, I _O =100µA
Input Voltage	V _{I(on)}			3.0	V	V ₀ =0.2V, I ₀ =5mA
Output Voltage	V _{O(on)}		0.1	0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I,			0.36	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	GI	56				V _o =5V, I _o =5mA
Input Resistance	R ₁	15.4	22	28.6	KΩ	
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



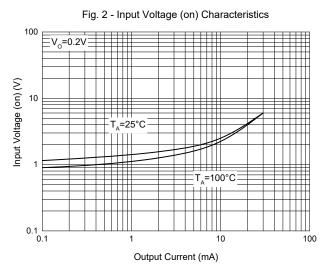
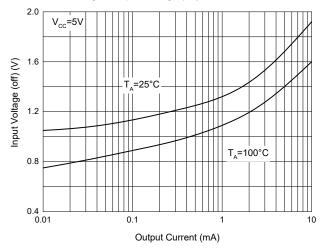


Fig. 3 - Input Voltage (off) Characteristics





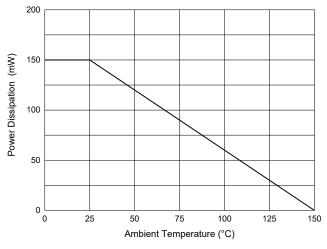
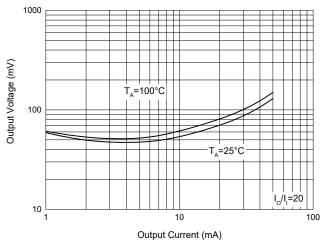


Fig. 4 - Output Voltage Characteristics





Ordering Information

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

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