

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)

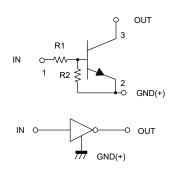
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}		50		V
Input Voltage	V _{IN}	-5		12	V
Output Current	Io		100		mA
Power Dissipation	P _D		150		mW
Junction Temperature	T _J			150	°C
Storage Temperature	T _{stg}	-55		150	°C

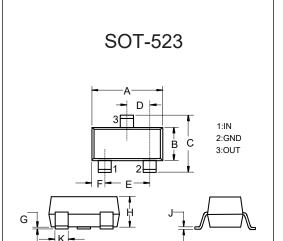
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: E42

Internal Structure

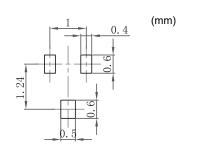


NPN Digital Transistor



DIMENSIONS						
DIM INCH		HES MM		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		
C	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



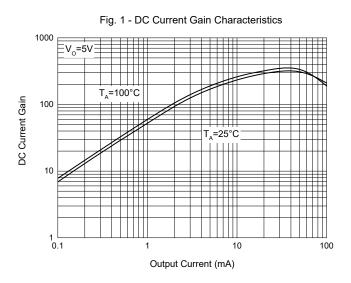


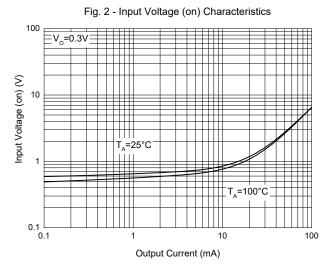
Electrical Characteristics @ 25°C Unless Otherwise Specified

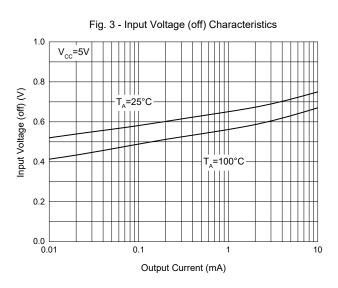
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Innut Valtage	$V_{I(off)}$	0.5			V	V _{CC} =5V, I _O =100μA
Input Voltage	V _{I(on)}			1.1	V	V_O =0.3V, I_O =5mA
Output Voltage	V _{O(on)}		0.1	0.3	V	I _O =5mA,I _I =0.25mA
Input Current	I _I			3.6	mA	V _i =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	Gı	80				V _O =5V, I _O =10mA
Input Resistance	R ₁	1.54	2.2	2.86	ΚΩ	
Resistance Ratio	R ₂ /R ₁	17	21	26		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =-5mA, f=100MHz

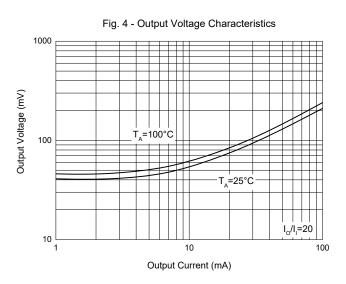


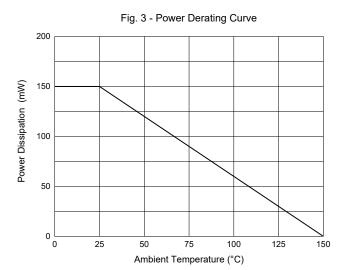
Curve Characteristics













Ordering Information

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

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