

Features

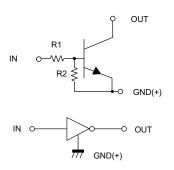
- Built-In Bias Resistors Enable the Configuration of an Inverter Circuit Without Connecting External Input Resistors
- The Bias Resistors Consist of Thin-Film Resistors With Complete Isolation to Allow Negative Biasing of the Input. They Also Have the Advantage of Almost Completely Eliminating Parasitic Effects
- Only the On/Off Conditions Need to Be Set For Operation, Making Device Design Easy
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- · 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

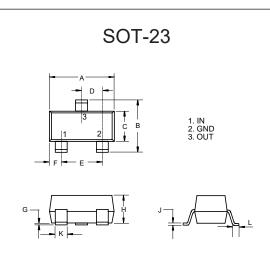
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}		50		V
Input Voltage	V _{IN}	-10		40	V
Output Current	Io		100		mA
Power Dissipation	P _D		200		mW
Junction Temperature	TJ		150		°C
Storage Temperature	T _{stg}	-55		150	°C

Device Marking: 26

Internal Structure

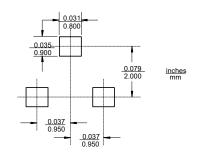


NPN Digital Transistor



DIMENSIONS						
DIM	INCI	HES	M	М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOIL	
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		
Е	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		

Suggested Solder Pad Layout



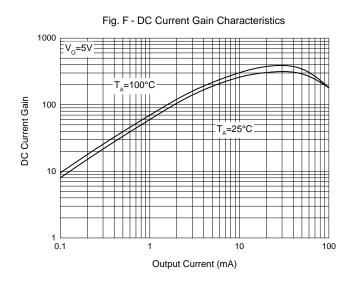


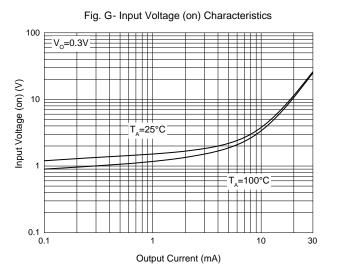
Electrical Characteristics @ 25°C Unless Otherwise Specified

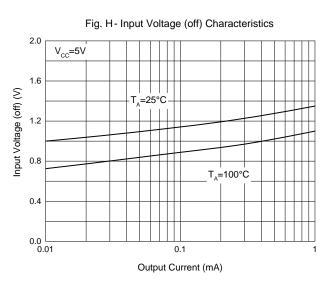
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Innut Valtage	V _{I(off)}	0.5			V	V _{CC} =5V, I _O =100μA
Input Voltage	V _{I(on)}			3.0	V	V _O =0.3V, I _O =2mA
Output Voltage	V _{O(on)}			0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I _I			0.18	mA	V ₁ =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	G _I	68				$V_O=5V$, $I_O=5mA$
Input Resistance	R ₁	32.9	47	61.1	ΚΩ	
Resistance Ratio	R ₂ /R ₁	8.0	1.0	1.2		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =-5mA, f=100MHz

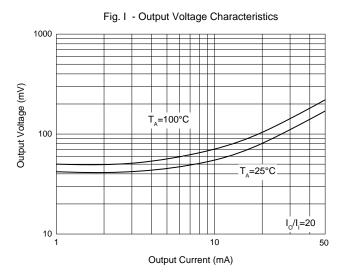


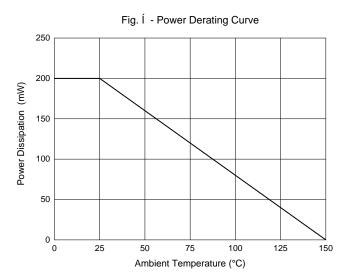
Curve Characteristics













Ordering Information

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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