

Features

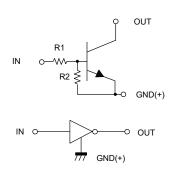
- Built-In Bias Resistors Enable the Configuration of an Inverter Circuit Without Connecting External Input Resistors
- The Bias Resistors Consist of Thin-Film Resistors With Complete Isolation to Allow Negative Biasing of the Input. They Also Have the Advantage of Almost Completely Eliminating Parasitic 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

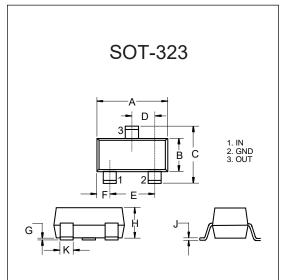
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}		50		V
Input Voltage	V _{IN}	-5		12	V
Output Current	Io		100		mA
Power Dissipation	P _D		200		mW
Junction Temperature	TJ		150		°C
Storage Temperature	T _{stg}	-55		150	°C

Device Marking: 62

Internal Structure

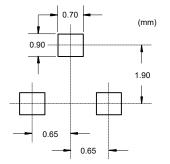


NPN Digital Transistor



DIMENSIONS						
DIM	INCHES		М	М	NOTE	
וווט	MIN	MAX	MIN	MAX	INOIL	
Α	0.071	0.087	1.80	2.20		
В	0.045	0.053	1.15	1.35		
С	0.083	0.096	2.10	2.45		
D	0.026		0.	65	TYP.	
Е	0.047	0.055	1.20	1.40		
F	0.012	0.016	0.30	0.40		
G	0.000	0.004	0.00	0.10		
Ι	0.035	0.044	0.90	1.10		
J	0.002	0.010	0.05	0.25		
K	0.006	0.016	0.15	0.40		

Suggested Solder Pad Layout



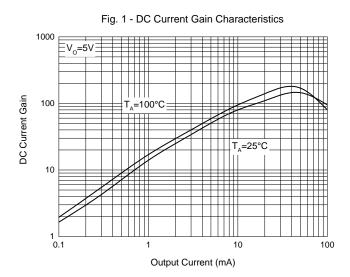


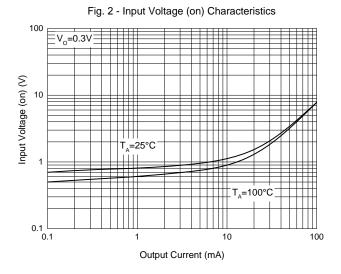
Electrical Characteristics @ 25°C Unless Otherwise Specified

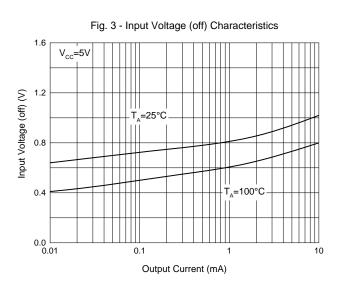
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Innut Voltage	$V_{I(off)}$	0.3			V	V _{CC} =5V, I _O =100μA
Input Voltage	V _{I(on)}			3.0	V	V _O =0.3V, I _O =20mA
Output Voltage	V _{O(on)}		0.1	0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I _I			3.8	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	G _I	33				V _O =5V, I _O =10mA
Input Resistance	R ₁	1.54	2.2	2.86	ΚΩ	
Resistance Ratio	R ₂ /R ₁	3.6	4.5	5.5		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =-5mA, f=100MHz

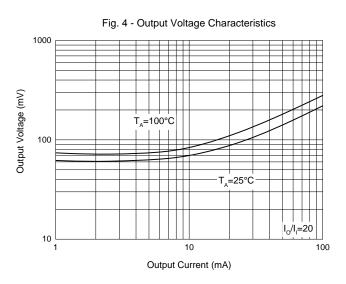


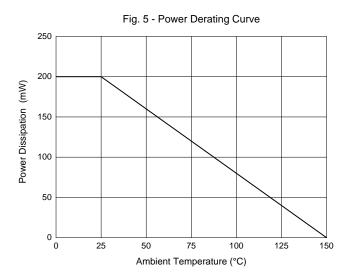
Curve Characteristics













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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Rev.3-1-01012019 4/4 MCCSEMI.COM