

Features

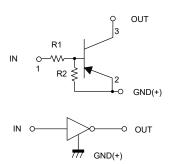
- Built-In Bias Resistors Enable the Configuration of an Inverter Circuit Without Connecting External Input Resistors
- The Bias Resistors Consist of Thin-Film Resistors With Complete Isolation to Allow Negative Biasing of the Input. They Also Have the Advantage of Almost Completely Eliminating Parasitic 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}	-12		5	V
Output Current	Io		-100		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

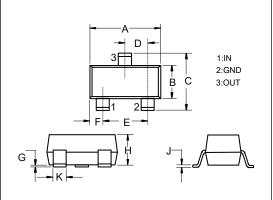
Device Marking: E32

Internal Structure



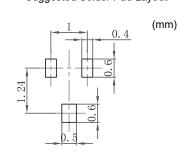
PNP Digital Transistor

SOT-523



DIMENSIONS						
DIM	INCHES		M	M	NOTE	
DIIVI	MIN	MAX	MIN MAX		INOTE	
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	0.028	0.031	0.70	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout



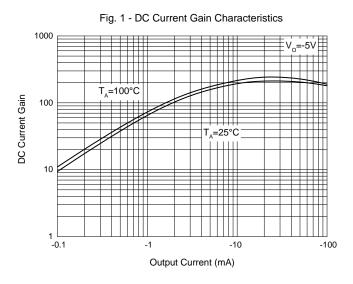


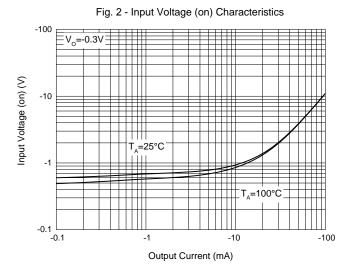
Electrical Characteristics @ 25°C Unless Otherwise Specified

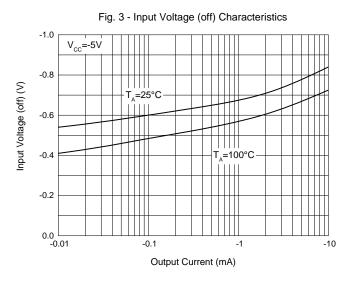
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Valtage	V _{I(off)}	-0.5			V	V _{CC} =-5V, I _O =-100μA
Input Voltage	V _{I(on)}			-1.1	V	V _O =-0.3V, I _O =-5mA
Output Voltage	V _{O(on)}			-0.3	V	I _O =-5mA,I _I =-0.25mA
Input Current	I _I			-3.6	mA	V _I =-5V
Output Current	I _{O(off)}			-0.5	μΑ	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

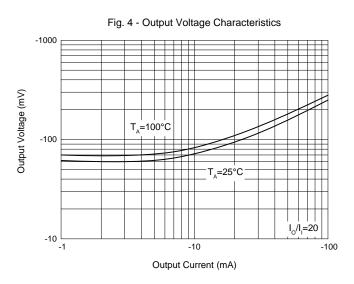


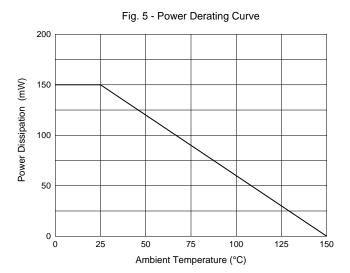
Curve Characteristics













Ordering Information

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

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

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