

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	Value	Unit
Collector-Emitter Voltage	V_{CEO}	50	V
Collector-Base Voltage	V _{CBO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current-Continuous	Ι _C	100	mA
Collector Dissipation	P _C	150	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

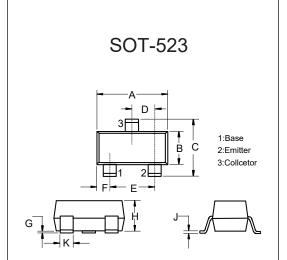
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: 04

Internal Structure

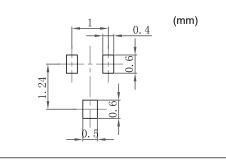






	DIMENSIONS					
DIM	INCHES		M	М	NOTE	
DIN	MIN	MAX	MIN MAX		NOTE	
Α	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020		0.	50	TYP.	
E	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50			V	Ι _C =50μΑ, Ι _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	50			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	Ι _Ε =50μΑ, Ι _C =0
Collector Cut-off Current	I _{CBO}			0.5	μA	$V_{CB}=50V,I_{E}=0$
Emitter Cut-off Current	I _{EBO}			0.5	μA	V _{EB} =4V,I _C =0
DC Current Gain	h _{FE}	100	300	600		I _C =1mA, V _{CE} =5V
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C =10mA, I _B =1mA
Input Resistance	R ₁	7	10	13	KΩ	
Transition Frequency	f _T		250		MHz	V _{CE} =10.0V, I _E =-5mA, f=100MHz

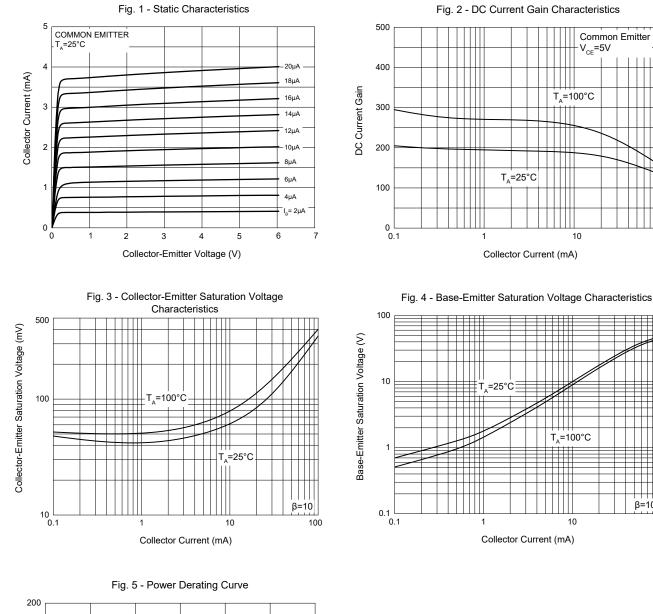


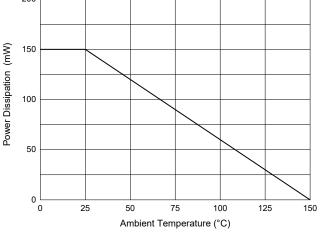
100

β=10

100

Curve Characteristics







Ordering Information

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

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