

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)

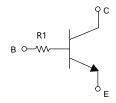
Maximum Ratings @ 25°C Unless Otherwise Specified

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	I _C	100	mA
Collector Dissipation	P_{C}	200	mW
Junction Temperature	T _J	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.

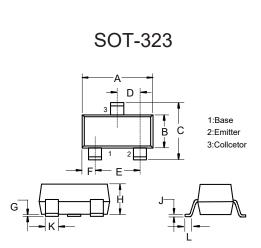
Device Marking: 06

Internal Structure

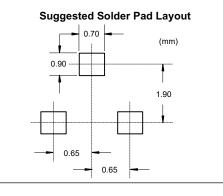


B:Base C:Collcetor E:Emitter

NPN Digital Transistor



DIMENSIONS						
DIM		M	M	NOTE		
DIIVI	MIN	MAX	MIN MAX		INOTE	
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		
Η	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		
L	0.010	0.018	0.26	0.46		



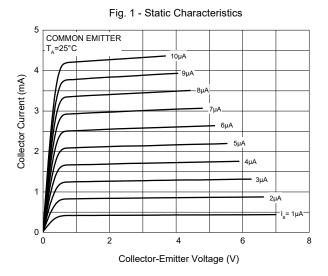


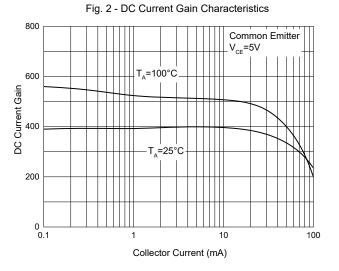
Electrical Characteristics @ 25°C Unless Otherwise Specified

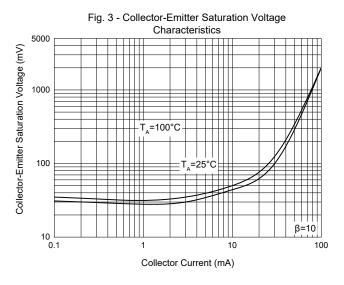
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50			V	I _C =50μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	50		-	V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5		-	V	I _E =50μA, I _C =0
Collector Cut-off Current	I _{CBO}			0.5	μΑ	$V_{CB}=50V,I_{E}=0$
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	32.9	47	61.1	ΚΩ	
Transition Frequency	f _T		250		MHz	V _{CE} =10.0V, I _E =-5mA, f=100MHz

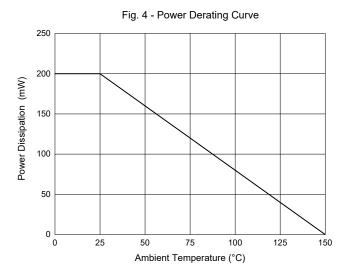


Curve Characteristics











Ordering Information

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

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