

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)

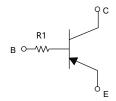
Maximum Ratings @ 25°C Unless Otherwise Specified

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	TJ	-55 ~150	°C
Storage Temperature Range	T _{STG}	-55 ~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.

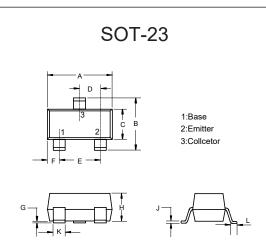
Device Marking: 94

Internal Structure



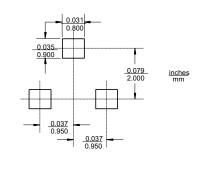
B:Base C:Collcetor E:Emitter

PNP Digital Transistor



DIMENSIONS						
DIM INCHE		HES MM		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



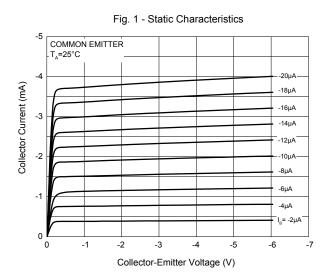


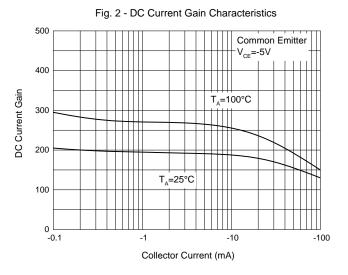
Electrical Characteristics @ 25° C UnlessOtherwise Specified

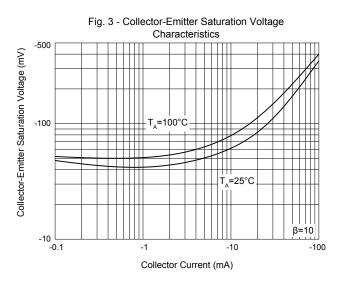
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-50			V	I_{C} =-50 μ A, I_{E} =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-50			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I_{E} =-50 μ A, I_{C} =0
Collector Cut-off Current	I _{CBO}			-0.5	μA	V_{CB} =-50 V , I_{E} =0
Emitter Cut-off Current	I _{EBO}			-0.5	μA	V_{EB} =-4 V , I_{C} =0
DC Current Gain	h _{FE}	100	250	600		I _C =-1mA, V _{CE} =-5V
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.3	٧	I _C =-10mA, I _B =-1mA
Input Resistance	R ₁	7	10	13	ΚΩ	
Transition Frequency	f _T		250		MHz	V _{CE} =-10.0V, I _E =5mA, f=100MHz

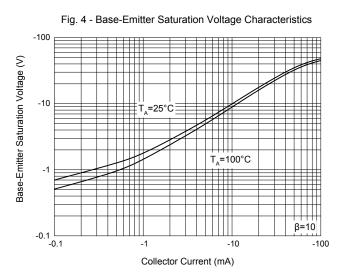


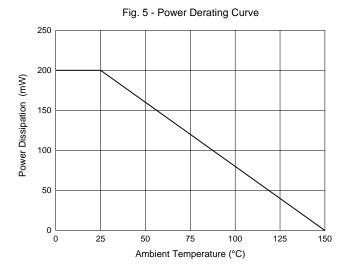
Curve Characteristics













Ordering Information

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

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