

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 ٠ **Device Design Easy**
- Halogen Free. "Green" Device (Note 1) ٠
- 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)

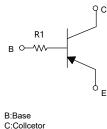
Maximum	Ratings (@ 25°C	Unless	Otherwise	Specified
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Parameter	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	-50	V
Collector-Base Voltage	V _{CBO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current-Continuous	I _C	-100	mA
Collector Dissipation	Pc	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.

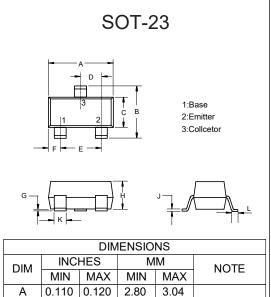
Device Marking: 94

Internal Structure

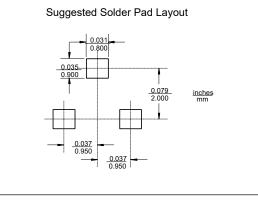


C:Collcetor E:Emitter





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	
E	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	



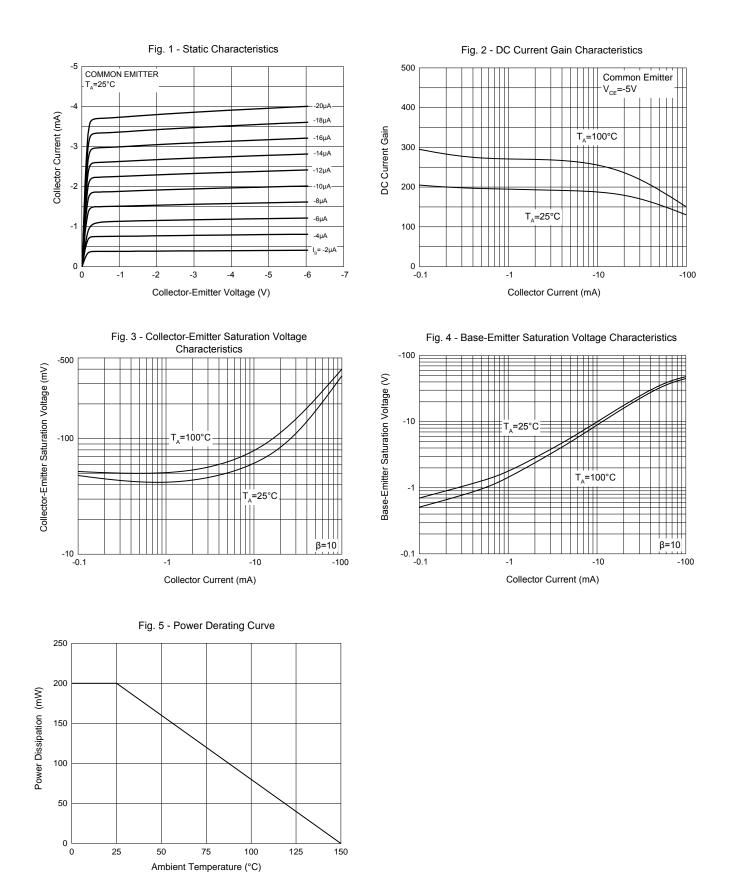


Electrical Characteristics @ 25° C UnlessOtherwise Specified

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 _E =-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	250	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



Curve Characteristics





Ordering Information

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

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