

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)

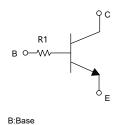
Maximum Ratings @ 25°C Unless Otherwise Specified

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	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.

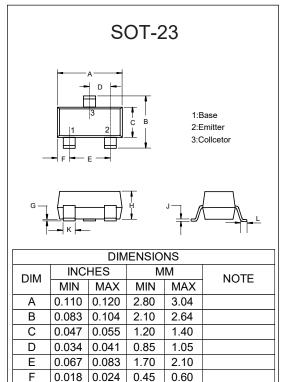
Device Marking: 06

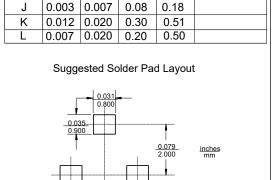
Internal Structure



C:Collcetor E:Emitter







0.01

0.90

0.15

1.10

G

н

0.0004 0.006

0.043

0.037

0.037

0.035

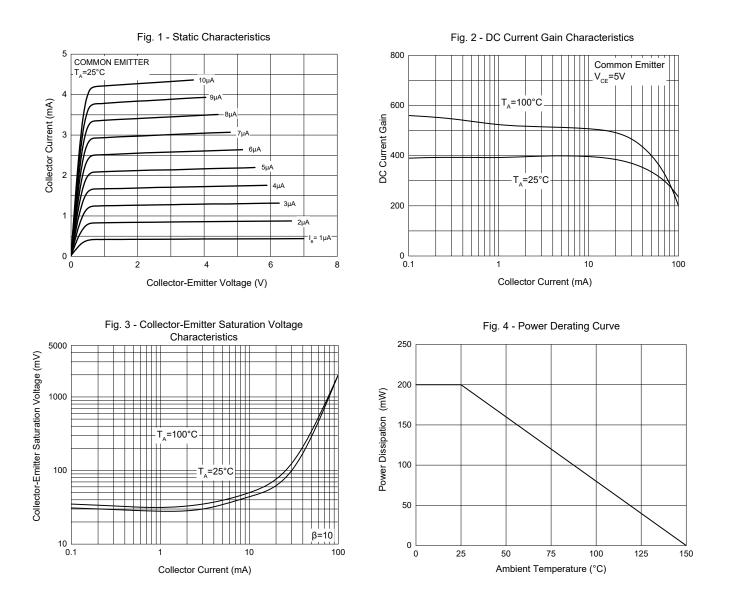


Electrical Characteristics @ 25° C UnlessOtherwise Specified

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 _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	32.9	47	61.1	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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