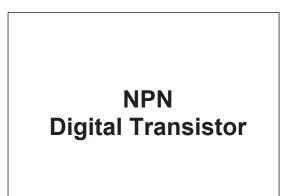


Features

- **Built-In Biasing Resistors** •
- 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)

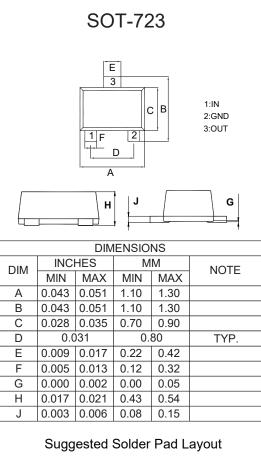


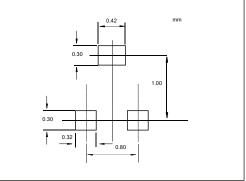
Maximum Ratings @ 25°C Unless Otherwise Specified

Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{cc}		50		V
Input Voltage	V _{IN}	-6		+40	V
Collector Current	Ι _C		50	100	mA
Power Dissipation	P _D		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature	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.





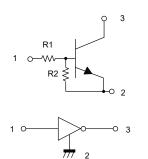
Internal Structure



3

64

1



(1) IN (BASE) (2) GND (EMITTER) (3) OUT (COLLECTOR)

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2

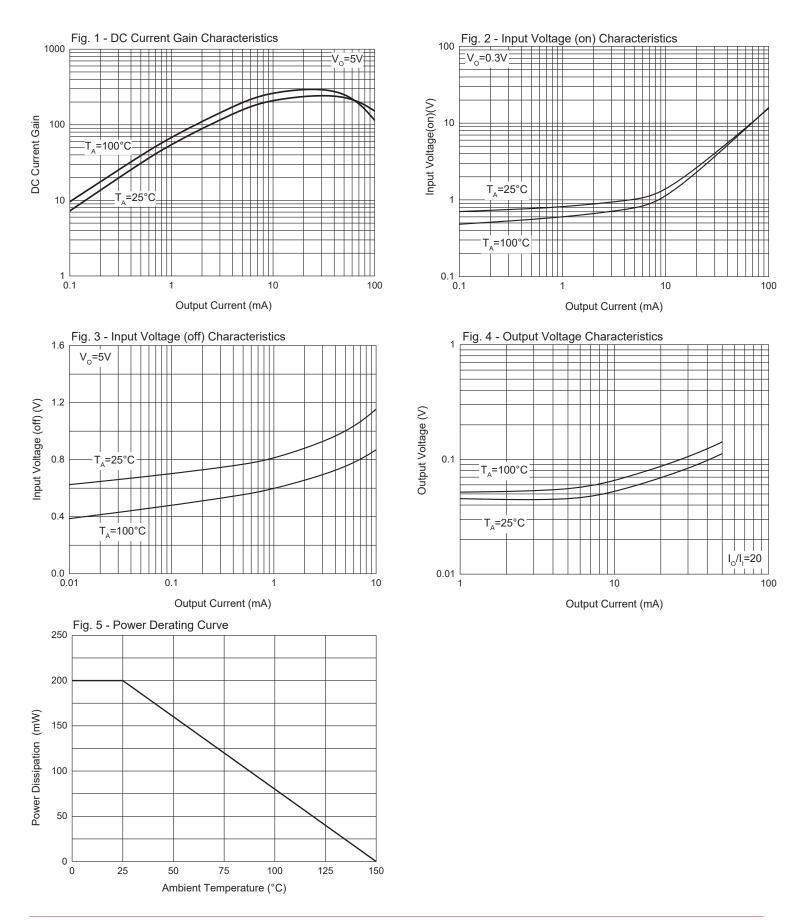


Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Unit	Conditions
Input Voltage	V _{I(off)}	0.3			V	V _{CC} =5V, I _O =100µA
	V _{I(on)}			1.4	V	V _O =0.3V, I _O =1mA
Output Voltage	V _{O(on)}			0.3	V	I ₀ =5mA,I _I =0.25mA
Input Current	I,			0.88	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	GI	68				V _O =5V, I _O =5mA
Input Resistance	R ₁	7	10	13	KΩ	
Resistance Ratio	R ₂ /R ₁	3.7	4.7	5.7		
Transition Frequency	f _T		250		MHz	V _O =10V, I _O =5mA



Curve Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:8Kpcs/Reel		

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