

# **Features**

- 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)

# PNP Digital Transistor

# Maximum Ratings @ 25°C Unless Otherwise Noted

• Thermal Resistance: 1250°C/W Junction to Ambient

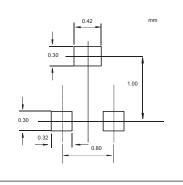
Parameter	Symbol	Value	Unit
Supply Voltage	V <sub>CC</sub>	-50	V
Input Voltage	V <sub>IN</sub>	-10~+5	V
Output Current	I <sub>O</sub>	-100	mA
Power Dissipation	P <sub>D</sub>	100	mW
Junction Temperature	TJ	-55~+150	°C
Storage Temperature	T <sub>stg</sub>	-55~+150	°C

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

# SOT-723

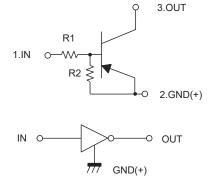
DIMENSIONS					
DIM IN		HES	M	M	NOTE
DIIVI	MIN	MAX	MIN MAX		
Α	0.043	0.051	1.10	1.30	
В	0.043	0.051	1.10	1.30	
С	0.028	0.035	0.70	0.90	
D	0.031		0.80		TYP.
Е	0.009	0.017	0.22	0.42	
F	0.005	0.013	0.12	0.32	
G	0.000	0.002	0.00	0.05	
Н	0.017	0.021	0.43	0.54	
J	0.003	0.006	0.08	0.15	

# Suggested Solder Pad Layout

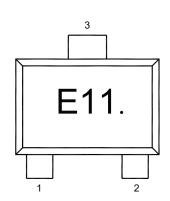


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# Internal Structure



# **Device Marking**



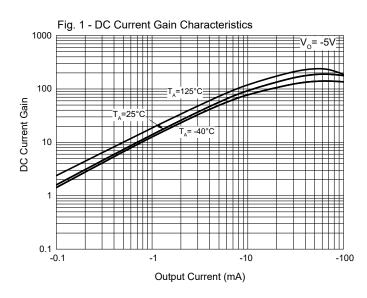


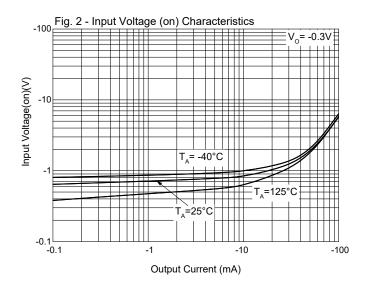
# Electrical Characteristics @ 25°C Unless Otherwise Specified

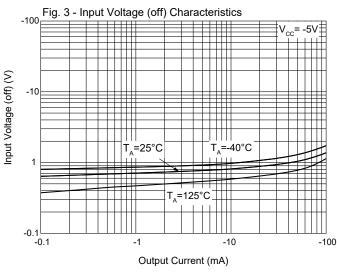
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	-0.3			V	V <sub>CC</sub> =-5V, I <sub>O</sub> =-100μA
	V <sub>I(on)</sub>			-3.0	V	V <sub>O</sub> =-0.3V, I <sub>O</sub> =-20mA
Output Voltage	V <sub>O(on)</sub>			-0.3	V	I <sub>O</sub> =-10mA,I <sub>I</sub> =-0.5mA
Input Current	I <sub>I</sub>			-7.2	mA	V <sub>I</sub> =-5V
Output Current	I <sub>O(off)</sub>			-0.5	μΑ	V <sub>CC</sub> =-50V, V <sub>I</sub> =0
DC Current Gain	Gı	33				V <sub>O</sub> =-5V, I <sub>O</sub> =-5mA
Input Resistance	R <sub>1</sub>	0.7	1.0	1.3	ΚΩ	
Resistance Ratio	R <sub>2</sub> /R <sub>1</sub>	8	10	12		
Transition Frequency	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =-10V, I <sub>E</sub> =-5mA, f=100MHz

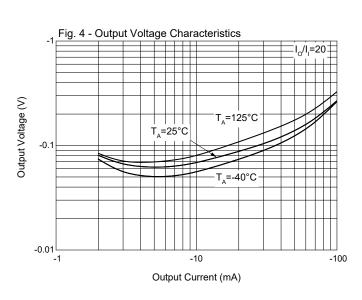


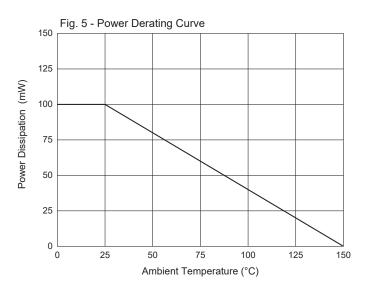
# **Curve Characteristics**













# **Ordering Information**

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

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