

## **Features**

- Epitaxial Planar Die Construction
- · 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)

# PNP Digital Transistor

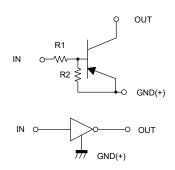
# Maximum Ratings @ 25°C Unless Otherwise Specified

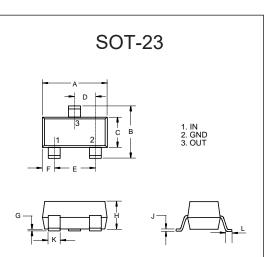
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V <sub>CC</sub>		-50		V
Input Voltage	V <sub>IN</sub>	-12		+5	V
Output Current	Io		-500		mA
Power Dissipation	P <sub>D</sub>		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T <sub>stg</sub>	-55		150	°C

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

# Device Marking: 234

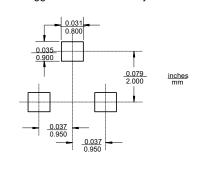
#### Internal Structure





DIMENSIONS					
DIM	INCHES		M	M	NOTE
	MIN	MAX	MIN MAX		NOIL
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	

## Suggested Solder Pad Layout



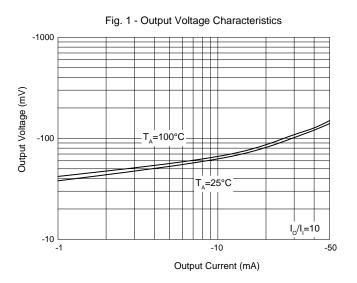


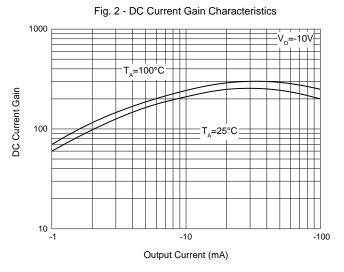
# Electrical Characteristics @ 25°C Unless Otherwise Specified

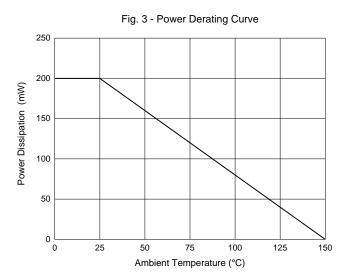
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	-0.5			V	V <sub>CC</sub> =-5V, I <sub>O</sub> =-100μA
	V <sub>I(on)</sub>			-2	V	V <sub>O</sub> =-0.3V, I <sub>O</sub> =-20mA
Output Voltage	V <sub>O(on)</sub>			-0.3	V	I <sub>O</sub> =-10mA,I <sub>I</sub> =-0.5mA
Input Current	I <sub>I</sub>			-3.8	mA	V <sub>I</sub> =-5V
Output Current	I <sub>O(off)</sub>			-0.5	μA	V <sub>CC</sub> =-50V, V <sub>I</sub> =0
DC Current Gain	Gı	56				V <sub>O</sub> =-5V, I <sub>O</sub> =-50mA
Input Resistance	R <sub>1</sub>	1.54	2.2	2.86	ΚΩ	
Resistance Ratio	R <sub>2</sub> /R <sub>1</sub>	3.6	4.5	5.5		
Transition Frequency	f <sub>T</sub>		200		MHz	V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz



# **Curve Characteristics**







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# **Ordering Information**

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

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