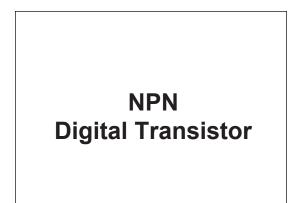


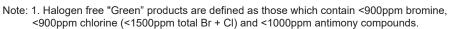
### Features

- 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)



## Maximum Ratings @ 25°C Unless Otherwise Specified

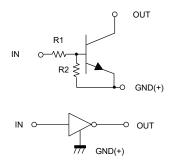
Parameter	Symbol	Min	Тур	Мах	Unit
Supply Voltage	V <sub>cc</sub>		50		V
Input Voltage	V <sub>IN</sub>	-7		+20	V
Collector Current	I <sub>c</sub>		100		mA
Power Dissipation(Note2)	P <sub>D</sub>			200	mW
Junction Temperature	TJ	-55		150	°C
Storage Temperature	T <sub>stg</sub>	-55		150	°C

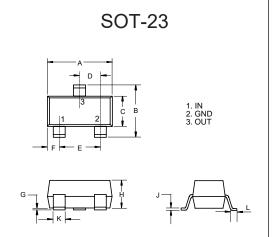


2. Mounted on FR4 PC Board with minimum recommended pad layout

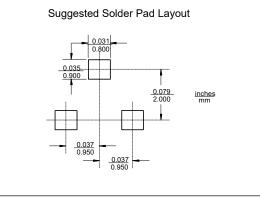
### Device Marking: 43

#### Internal Structure





DIMENSIONS						
DIM	INCHES		M	М	NOTE	
DIW	MIN	MAX	MIN	MAX	NOTE	
А	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		





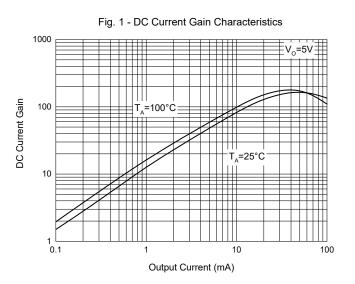
# Electrical Characteristics @ 25°C Unless Otherwise Specified

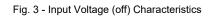
Parameter	Symbol	Min	Тур	Мах	Unit	Conditions
Input Valtage	V <sub>I(off)</sub>	0.3			V	V <sub>CC</sub> =5V, I <sub>O</sub> =100µA
Input Voltage	V <sub>I(on)</sub>			2.5	V	V <sub>0</sub> =0.3V, I <sub>0</sub> =20mA
Output Voltage	V <sub>O(on)</sub>		0.1	0.3	V	I <sub>O</sub> =10mA,I <sub>I</sub> =0.5mA
Input Current	I,			1.8	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	30				V <sub>o</sub> =5V, I <sub>o</sub> =10mA
Input Resistance	R <sub>1</sub>	3.29	4.7	6.11	KΩ	
Resistance Ratio	R <sub>2</sub> /R <sub>1</sub>	1.7	2.1	2.6		
Transition Frequency	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =10V, I <sub>E</sub> =-5mA, f=100MHz

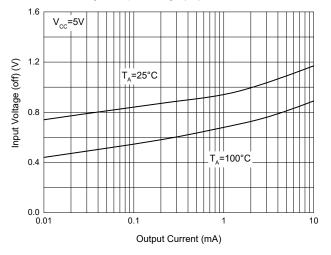




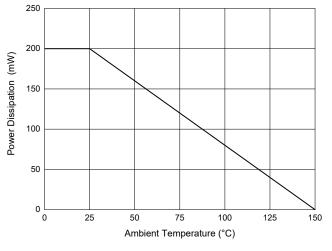
### **Curve Characteristics**











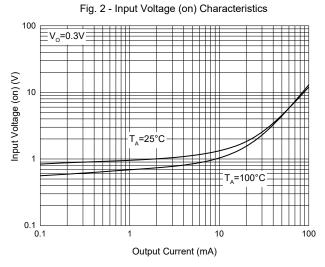
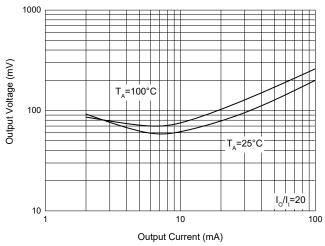


Fig. 4 - Output Voltage Characteristics





### **Ordering Information**

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

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