

### **Features**

- Moisture Sensitivity Level 1
- Halogen Free."Green"Device(Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

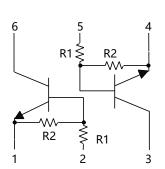
## Maximum Ratings @ 25°C Unless Otherwise Specified

Thermal Resistance: 417°C/W Junction to Ambient

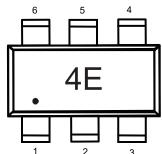
Parameter	Symbol	Value	Unit
Supply Voltage	V <sub>CC</sub>	50	V
Input Voltage	V <sub>IN</sub>	-5~+10	V
Output Current	Io	100	mA
Power Dissipation	P <sub>D</sub>	300	mW
Junction Temperature	TJ	-55~+150	°C
Storage Temperature	T <sub>stg</sub>	-55~+150	°C

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

#### **Internal Structure**

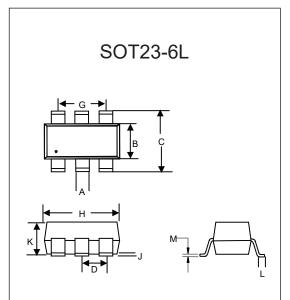


Device Marking



- 1、GND (Emitter)
- 2、Input (Base)
- 3、Output (Collector)
- 4、GND (Emitter)
- 5、Input (Base)
- 6. Output (Collector)

# Dual NPN Digital Transistor



DIMENSIONS						
DIM	INCHES		M	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
Α	0.012	0.020	0.30	0.50		
В	0.051	0.070	1.30	1.80		
С	0.087	0.126	2.20	3.20		
D	0.037		0.95		TYP.	
G	0.074		1.90		TYP.	
Н	0.106	0.122	2.70	3.10		
J	0.002	0.006	0.05	0.15		
K	0.030	0.051	0.75	1.30		
L	0.012	0.024	0.30	0.60		
М	0.003	0.008	0.08	0.22	-	

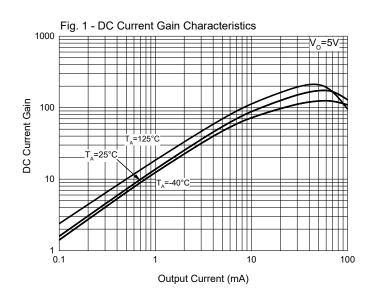


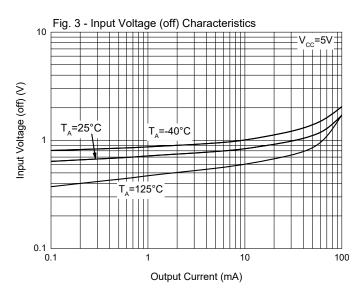
## Electrical Characteristics @ 25°C Unless Otherwise Specified

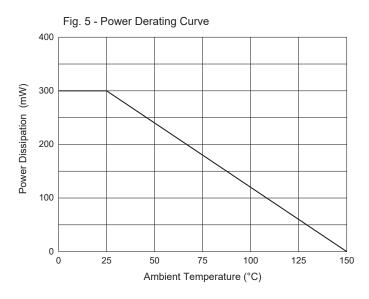
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Innut Voltage	$V_{I(off)}$	0.3			V	V <sub>CC</sub> =5V, I <sub>O</sub> =100μA
Input Voltage	$V_{I(on)}$			3.0	V	V <sub>O</sub> =0.3V, I <sub>O</sub> =20mA
Output Voltage	V <sub>O(on)</sub>			0.3	V	I <sub>O</sub> =10mA,I <sub>I</sub> =0.5mA
Input Current	I <sub>I</sub>			7.2	mA	V <sub>I</sub> =5V
Output Current	I <sub>O(off)</sub>			0.5	μA	V <sub>CC</sub> =50V, V <sub>I</sub> =0
DC Current Gain	G	33				$V_O=5V$ , $I_O=5mA$
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>	200			MHz	V <sub>CE</sub> =10V, I <sub>E</sub> =5mA, f=100MHz

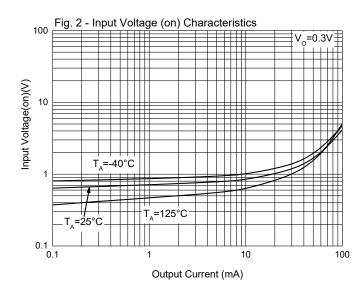


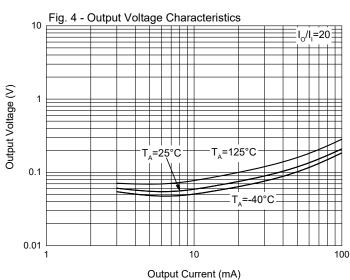
### **Curve Characteristics**













## **Ordering Information**

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

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