

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)

NPN Digital Transistor

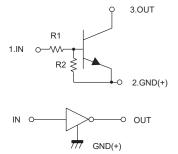
Maximum Ratings @ 25°C Unless Otherwise Specified

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

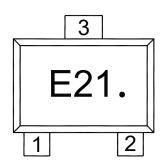
Parameter	Symbol	Value	Unit	
Supply Voltage	V _{CC}	50	V	
Input Voltage	V _{IN}	-5~+10	V	
Output Current	Io	100	mA	
Power Dissipation	P _D	100	mW	
Junction Temperature	T _J	-55~+150	°C	
Storage Temperature	T _{stg}	-55~+150	°C	

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

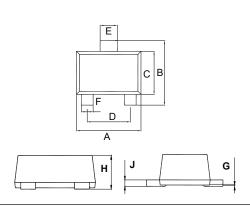
Internal Structure



Marking Code

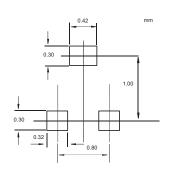


SOT-723



DIMENSIONS						
DIM	INCHES		M	M	NOTE	
MIN I		MAX	MIN MAX		NOTE	
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.	
E	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



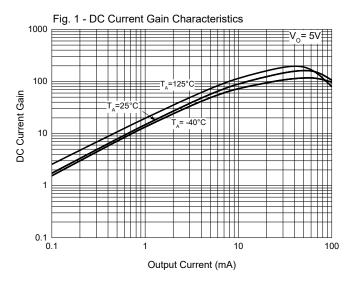


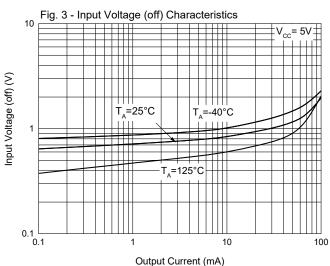
Electrical Characteristics @ 25°C Unless Otherwise Specified

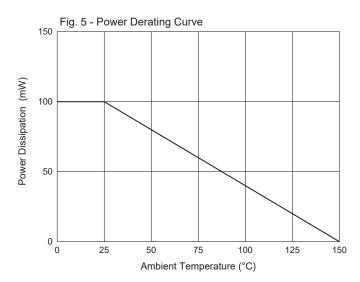
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Innut Valtage	$V_{I(off)}$	0.3			V	V _{CC} =5V, I _O =100μA
Input Voltage	V _{I(on)}			3.0	V	V _O =0.3V, I _O =10mA
Output Voltage	V _{O(on)}			0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I _I			7.2	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	Gı	33				$V_O=5V$, $I_O=5mA$
Input Resistance	R ₁	0.7	1.0	1.3	ΚΩ	
Resistance Ratio	R ₂ /R ₁	8	10	12		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =5mA, f=100MHz

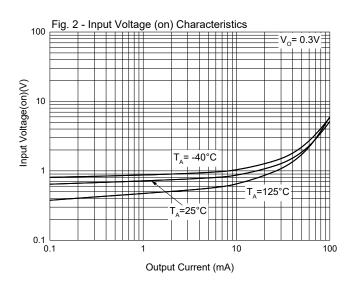


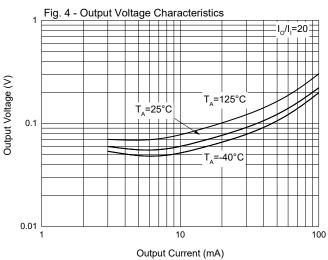
Curve Characteristics













Ordering Information

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

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