

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)

NPN Digital Transistor

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}			50	V
Input Voltage	V _{IN}	-5		+10	V
Collector Current	I _C			500	mA
Power Dissipation(Note2)	P _D			250	mW
Junction Temperature	TJ	-55		150	°C
Storage Temperature	T _{stg}	-55		150	°C
Thermal Resistance Junction to Ambient (Note2)	R _{thja}			500	°C/W

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

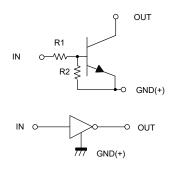
2. Mounted On Fr4 Pc Board With Minimum Recommended Pad Layout

SOT-23

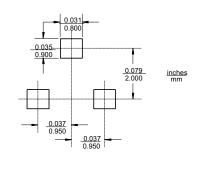
DIMENSIONS					
DIM -	INC	INCHES		M	NOTE
	MIN	MAX	MIN	MAX	INOIL
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Device Marking: E21A

Internal Structure



Suggested Solder Pad Layout



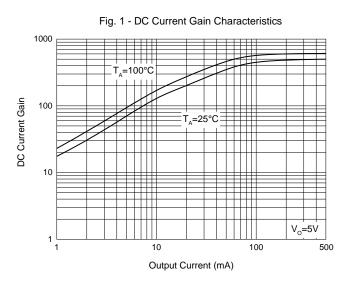


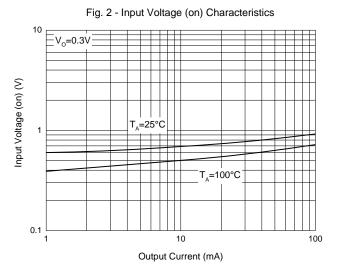
Electrical Characteristics @ 25°C Unless Otherwise Specified

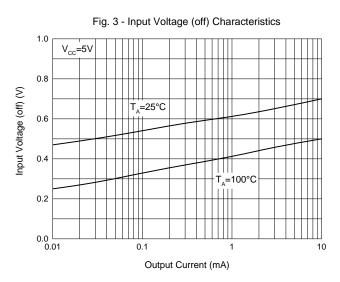
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	0.3			V	V _{CC} =5V, I _O =100μA
	V _{I(on)}			3.0	V	V _O =0.3V, I _O =20mA
Output Voltage	V _{O(on)}			0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I _I			7.2	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μΑ	V _{CC} =50V, V _I =0
DC Current Gain	Gı	70				V _O =5V, I _O =50mA
Input Resistance	R ₁	0.7	1	1.3	ΚΩ	
Resistance Ratio	R ₂ /R ₁	7	10	12		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =-5mA, f=100MHz

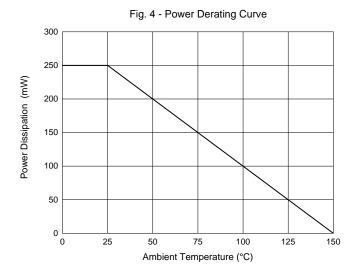


Curve Characteristics











Ordering Information

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

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