

Features

- · Epitaxial Planar Die Construction
- · Untrl Small Surface Mount Package
- · 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)

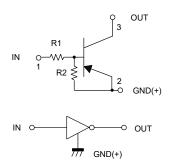
Maximum Ratings @ 25°C Unless Otherwise Noted

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}		-50		V
Input Voltage	V _{IN}	-40		10	V
Collector Current	I _C		-50	-100	mA
Power Dissipation	P _D		150		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C

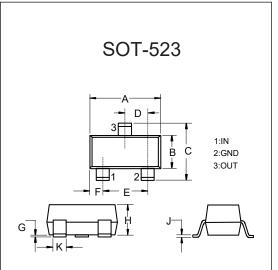
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: 14

Internal Structure

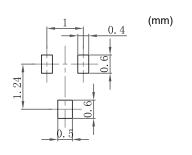


PNP Digital Transistor



DIMENSIONS						
DIM	INCHES		М	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
Α	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020		0.50		TYP.	
Е	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout



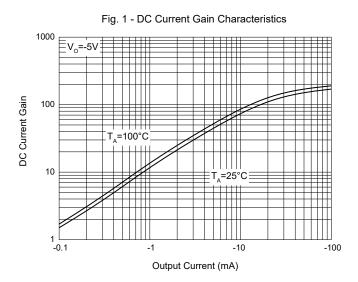


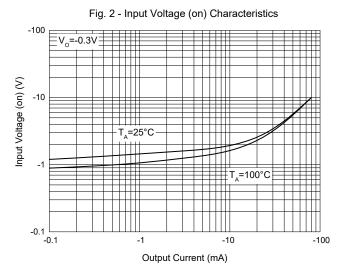
Electrical Characteristics @ 25°C Unless Otherwise Specified

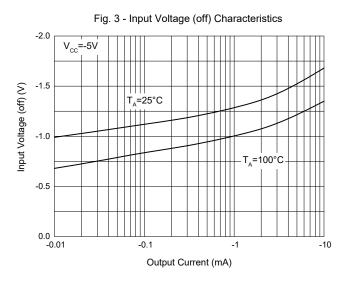
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Innut Voltage	$V_{I(off)}$	-0.5			V	V _{CC} =-5V, I _O =-100μA
Input Voltage	$V_{I(on)}$			-3.0	V	V _O =-0.3V, I _O =-10mA
Output Voltage	V _{O(on)}			-0.3	V	I _O =-10mA,I _I =-0.5mA
Input Current	I _I			-0.88	mA	V _I =-5V
Output Current	I _{O(off)}			-0.5	μA	V _{CC} =-50V, V _I =0
DC Current Gain	G _I	30				V_O =-5V, I_O =-5mA
Input Resistance	R ₁	7.0	10	13	ΚΩ	
Resistance Ratio	R ₂ /R ₁	8.0	1.0	1.2		
Transition Frequency	f _T		250		MHz	V _{CE} =-10V, I _E =5mA, f=100MHz

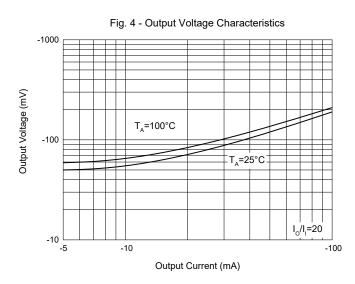


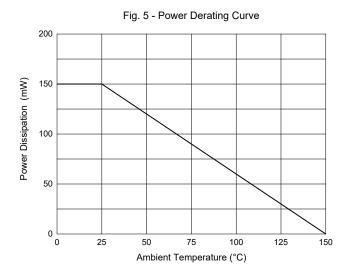
Curve Characteristics













Ordering Information

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

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