

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)

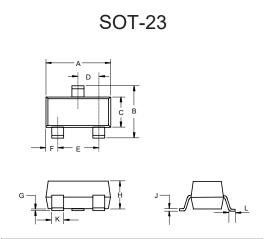
NPN Digital Transistor

Maximum Ratings @ 25°C Unless Otherwise Specified

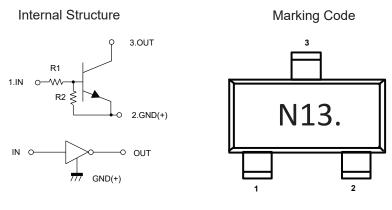
· Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	-10~+40	V
Output Current	Io	500	mA
Power Dissipation	P _D	200	mW
Junction Temperature	TJ	-55~+150	°C
Storage Temperature	T _{stg}	-55~+150	°C

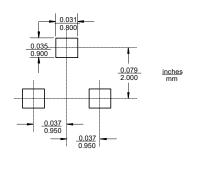
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



DIMENSIONS						
DIM INCHES		M	М	NOTE		
DIIVI	MIN	MAX	MIN MAX		NOTE	
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		
Е	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		



Suggested Solder Pad Layout



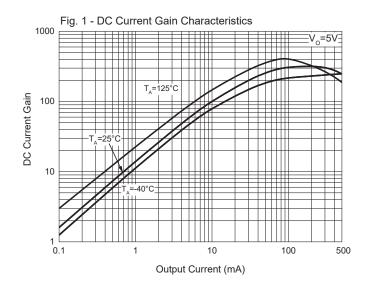


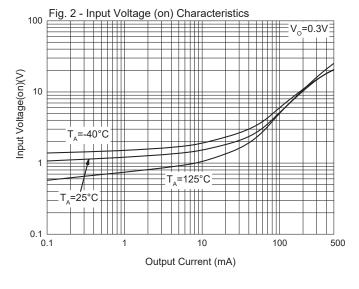
Electrical Characteristics @ 25°C Unless Otherwise Specified

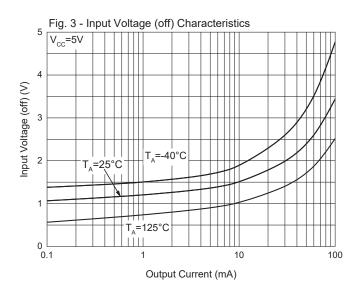
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	0.5			V	V _{CC} =5V, I _O =100μA
	V _{I(on)}			3.0	V	V _O =0.3V, I _O =10mA
Output Voltage	V _{O(on)}			0.3	V	I _O =50mA,I _I =2.5mA
Input Current	I _I			0.88	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μΑ	V _{CC} =50V, V _I =0
DC Current Gain	Gı	56				V _O =5V, I _O =50mA
Input Resistance	R ₁	7	10	13	ΚΩ	
Resistance Ratio	R ₂ /R ₁	8.0	1	1.2		
Transition Frequency	f _T	160			MHz	V _{CE} =10V, I _E =-50mA, f=100MHz

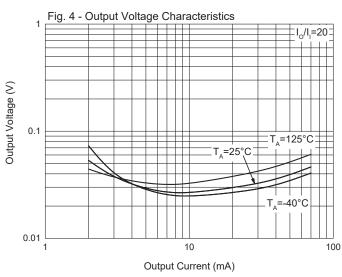


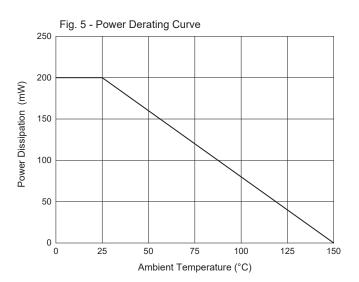
Curve Characteristics













Ordering Information

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

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