

## 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)

## PNP Digital Transistor

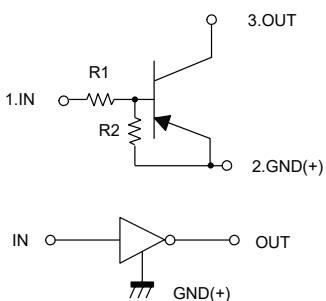
### Maximum Ratings @ 25°C Unless Otherwise Specified

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

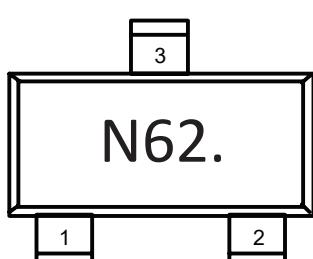
Parameter	Symbol	Value	Unit
Supply Voltage	V <sub>CC</sub>	-50	V
Input Voltage	V <sub>IN</sub>	-12~+10	V
Output Current	I <sub>O</sub>	-500	mA
Power Dissipation	P <sub>D</sub>	200	mW
Junction Temperature	T <sub>J</sub>	-55~+150	°C
Storage Temperature	T <sub>stg</sub>	-55~+150	°C

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

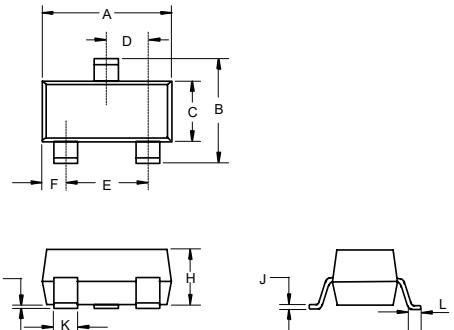
Internal Structure



Marking Code



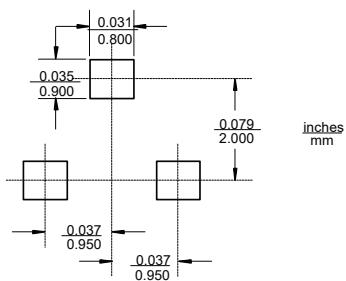
SOT-23



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	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	
H	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	

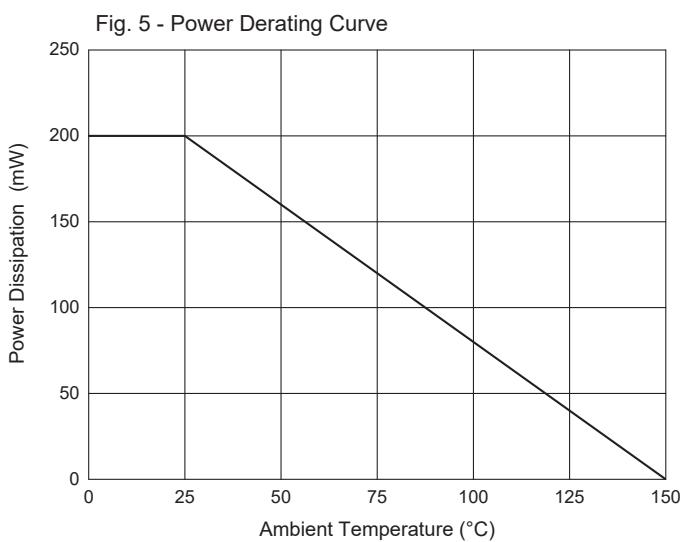
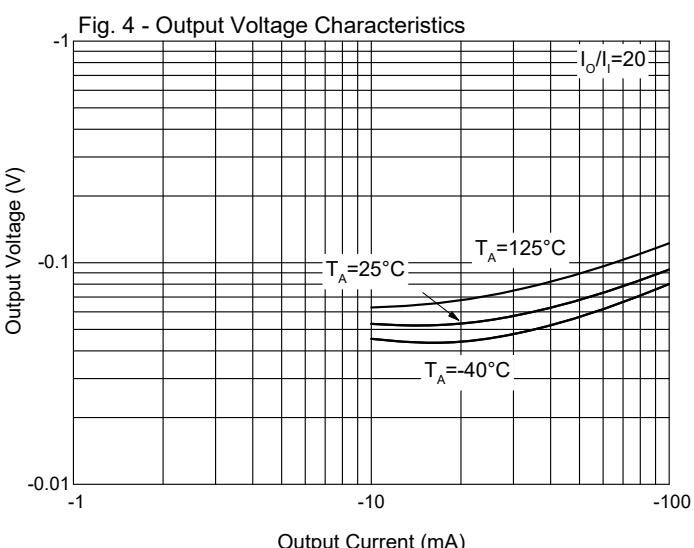
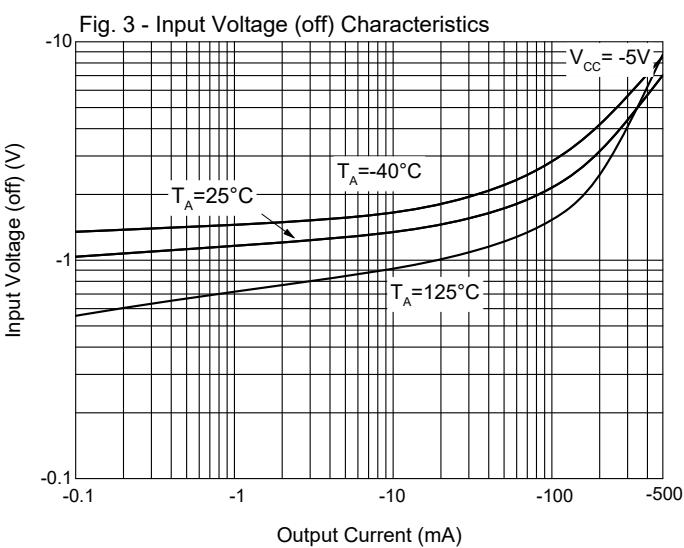
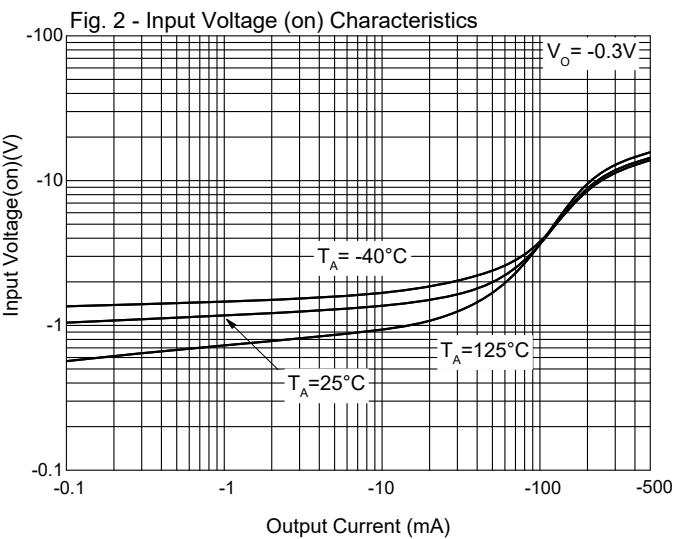
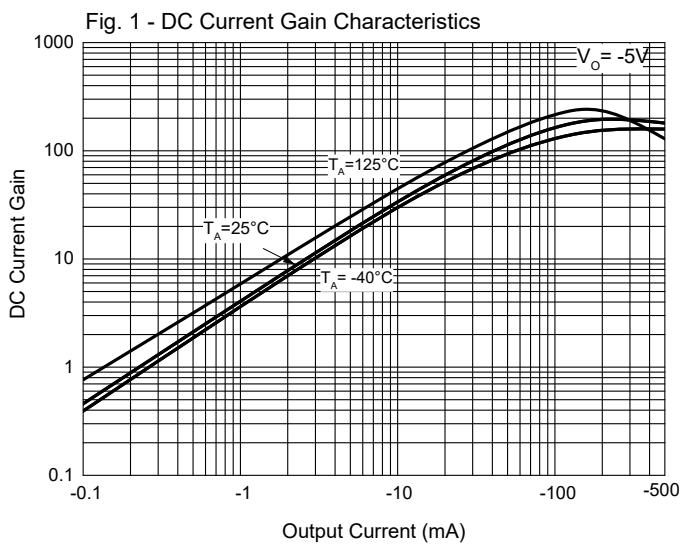
Suggested Solder Pad Layout



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	-0.5	---	---	V	$V_{CC}=-5V, I_O=-100\mu A$
	$V_{I(on)}$	---	---	-3.0	V	$V_O=-0.3V, I_O=-20mA$
Output Voltage	$V_{O(on)}$	---	---	-0.3	V	$I_O=-50mA, I_I=-2.5mA$
Input Current	$I_I$	---	---	-3.8	mA	$V_I=-5V$
Output Current	$I_O(off)$	---	---	-0.5	$\mu A$	$V_{CC}=-50V, V_I=0$
DC Current Gain	$G_I$	50	---	---		$V_O=-5V, I_O=-50mA$
Input Resistance	$R_1$	1.54	2.2	2.86	KΩ	
Resistance Ratio	$R_2/R_1$	0.8	1.0	1.2		
Transition Frequency	$f_T$	---	200	---	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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