

Features

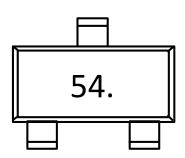
- Built-In Bias Resistors Enable the Configuration of an Inverter Circuit Without Connecting External Input Resistors
- Only the On/Off Conditions Need to Be Set For Operation, Making Device Design Easy
- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- · Moisture Sensitivity Level 1
- Epoxy 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 Specified

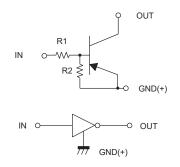
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}		-50		V
Input Voltage	V _{IN}	-40		6	V
Output Current	Io		-70		mA
Output Current	I _{C(Max)}		-100		mA
Power Dissipation	P _D		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C

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

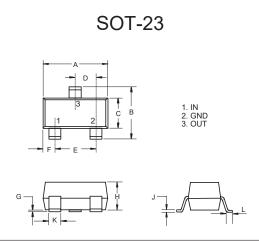
Device Marking



Internal Structure

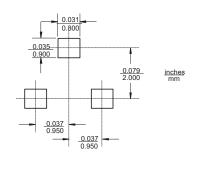


PNP Digital Transistor



DIMENSIONS						
DIM INC		HES	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		
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		

Suggested Solder Pad Layout



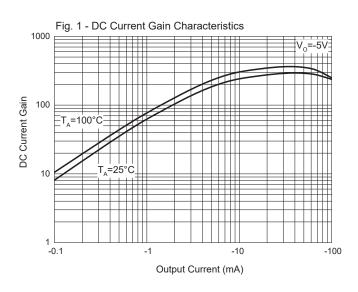


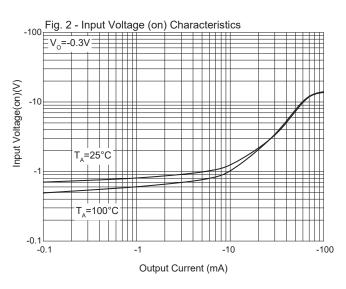
Electrical Characteristics @ 25°C Unless Otherwise Specified

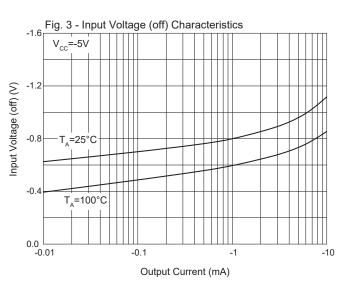
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	-0.3			V	V _{CC} =-5V, I _O =-100μA
	V _{I(on)}			-1.4	V	V _O =-0.3V, I _O =-1mA
Output Voltage	V _{O(on)}			-0.3	V	I _O =-5mA,I _I =-0.25mA
Input Current	I _I			-0.88	mA	V _I =-5V
Output Current	I _{O(off)}			-0.5	μA	V _{CC} =-50V, V _I =0
DC Current Gain	Gı	68				V _O =-5V, I _O =-5mA
Input Resistance	R ₁	7	10	13	ΚΩ	
Resistance Ratio	R ₂ /R ₁	3.7	4.7	5.7		
Transition Frequency	f _T		250		MHz	V _{CE} =-10V, I _E =-5mA, f=100MHz

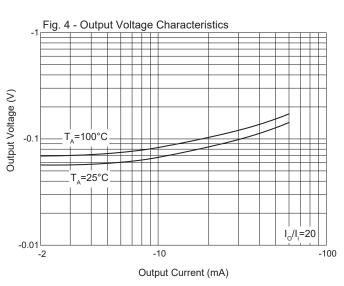


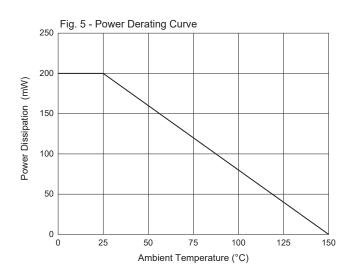
Curve Characteristics













Ordering Information

Device	Packing		
DTA114YCAHE3-TP	Tape&Reel:3Kpcs/Reel		

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