

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 the Circuit 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)

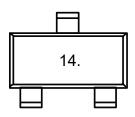
Parameter	Symbol	Min	Тур	Мах	Unit
Supply Voltage	V _{cc}		-50		V
Input Voltage	V _{IN}	-40		10	V
Output Ourropt	Ι _Ο		-50		mA
Output Current	I _{C(Max)}		-100		mA
Power Dissipation	P _D		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C

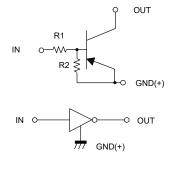
Maximum Ratings @ 25°C Unless Otherwise Specified

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

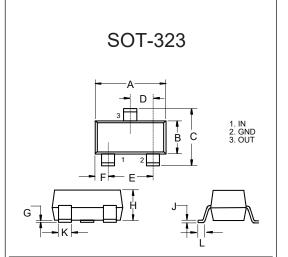
Device Marking

Internal Structure



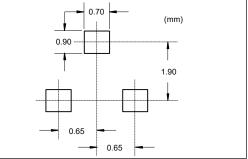






DIMENSIONS					
DIM	INC	HES	M	Μ	NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	





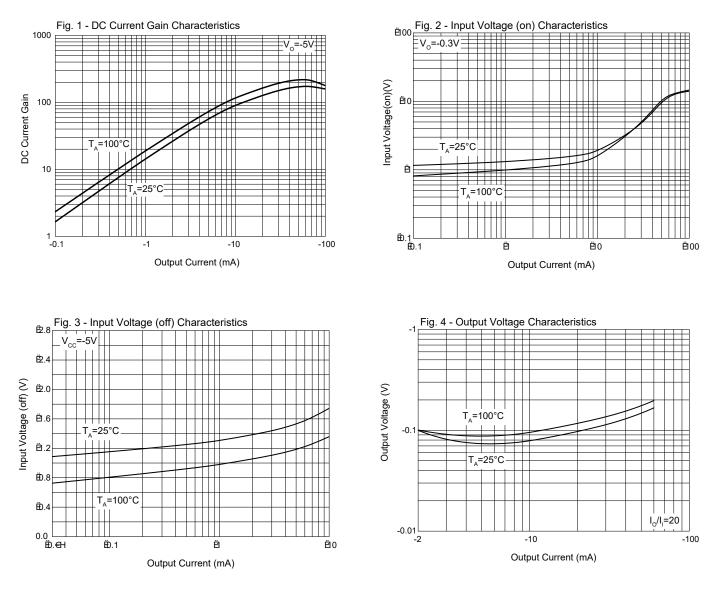


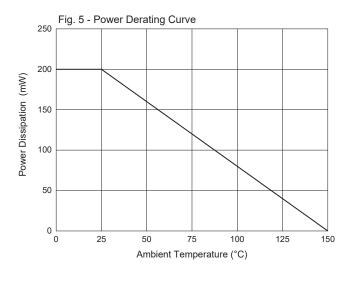
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	V _{I(off)}	-0.5			V	V _{cc} =-5V, Ι _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 =-10mA,I _I =-0.5mA
Input Current	I _I			-0.88	mA	V _I =-5V
Output Current	I _{O(off)}			-0.1	μA	V _{CC} =-50V, V _I =0
DC Current Gain	Gı	30				V ₀ =-5V, I ₀ =-5mA
Input Resistance	R ₁	7	10	13	KΩ	
Resistance Ratio	R ₂ /R ₁	0.8	1.0	1.2		
Transition Frequency	f _T		250		MHz	V _{CE} =-10V, I _E =-5mA, f=100MHz



Curve Characteristics







Ordering Information

Device	Packing
DTA114EUAHE3-TP	Tape&Reel:3Kpcs/Reel

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