

Features

- Built-In Bias Resistors Enable the Configuration of an Inverter Circuit Without Connecting External Input Resistors
- The Bias Resistors Consist of Thin-Film Resistors With Complete Isolation to Allow Negative Biasing of the Input. They Also Have the Advantage of Almost Completely Eliminating Parasitic Effects
- Only the On/Off Conditions Need to Be Set For Operation, Making Device Design Easy
- 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)

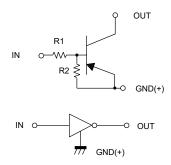
Maximum Ratings @ 25°C Unless Otherwise Specified

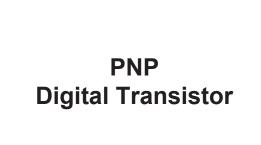
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{cc}		-50		V
Input Voltage	V _{IN}	-20		7	V
Output Current	Ι _ο		-100		mA
	I _{C(Max)}		-100		mA
Power Dissipation	P _D		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C

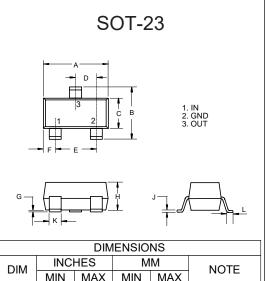
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: 33

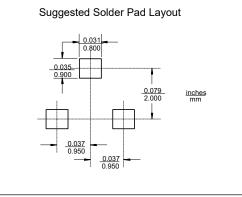
Internal Structure







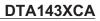
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
К	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	





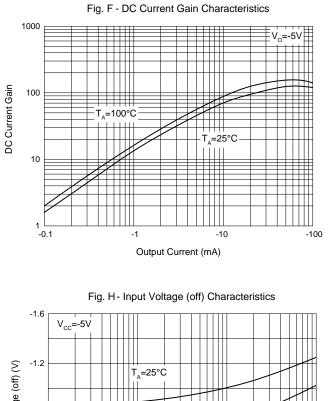
Electrical Characteristics @ 25°C Unless Otherwise Specified

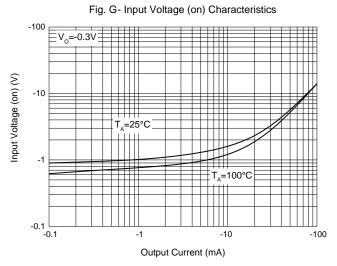
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
	V _{I(off)}	-0.3			V	V _{CC} =-5V, I _O =-100µA
Input Voltage	V _{I(on)}			-2.5	V	V _o =-0.3V, I _o =-2mA
Output Voltage	V _{O(on)}		-0.1	-0.3	V	I _o =-10mA,I _I =-0.5mA
Input Current	I _I			-1.8	mA	V _I =-5V
Output Current	I _{O(off)}			-0.5	μA	V _{CC} =-50V, V _I =0
DC Current Gain	Gı	30				V ₀ =-5V, I ₀ =-5mA
Collector-base Cut-off Current	I _{CBO}			-100	nA	V _{CB} =50V;I _E =0A
Collector-emitter Cut-off	I			-1	μA	V _{CE} =-30V;I _B =0A,T _J =25 [°] C
Current	I _{CEO}			-5	μA	V _{CE} =-30V;I _B =0A,T _J =150 [°] C
Input Resistance	R ₁	3.29	4.7	6.11	KΩ	
Resistance Ratio	R_2/R_1	1.7	2.1	2.6		
Collector Capacitance	C _c		2.50		pF	V_{CB} =-10V, I _E = i _e =0A, f=1MHz
Transition Frequency	f _T		250		MHz	V _{CE} =-10V, I _E =5mA, f=100MHz

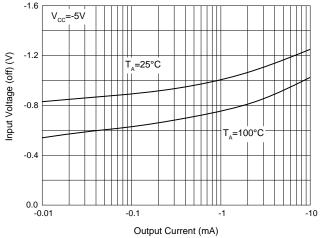


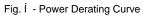


Curve Characteristics









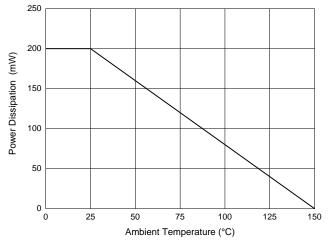
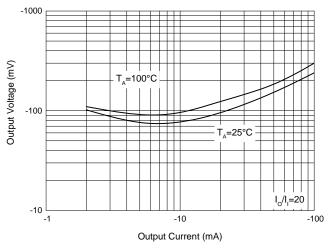


Fig. I - Output Voltage Characteristics





Ordering Information

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

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