

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)

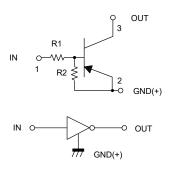
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}		-50		V
Input Voltage	V _{IN}	-40		10	V
Output Current	Io		-30		mA
Output Current	I _{C(Max)}		-100		mA
Power Dissipation	P _D		150		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C

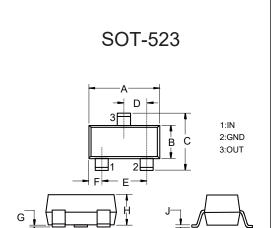
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: 16

Internal Structure

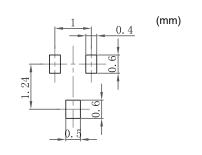


PNP Digital Transistor



DIMENSIONS						
DIM	INCHES		M	M	NOTE	
DIIVI	MIN	MAX	MIN MAX		INOTE	
Α	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020		0.50		TYP.	
Е	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout



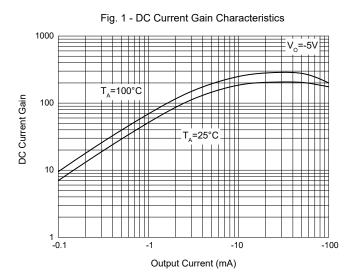


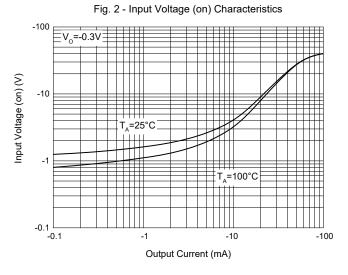
Electrical Characteristics @ 25°C Unless Otherwise Specified

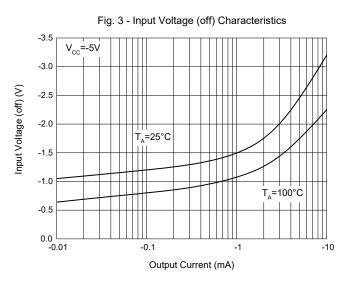
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	-0.5			V	V _{CC} =-5V, I _O =-100μA
	V _{I(on)}			-3.0	V	V _O =-0.3V, I _O =-2mA
Output Voltage	V _{O(on)}			-0.3	V	I _O =-10mA,I _I =-0.5mA
Input Current	I _I			-0.18	mA	V _I =-5V
Output Current	I _{O(off)}			-0.5	μΑ	V _{CC} =-50V, V _I =0
DC Current Gain	Gı	68				V_O =-5 V , I_O =-5 mA
Input Resistance	R ₁	32.9	47	61.1	ΚΩ	
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

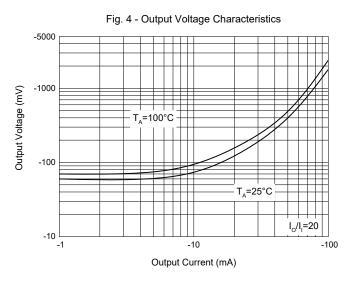


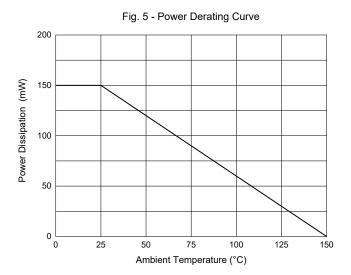
Curve Characteristics













Ordering Information

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

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RN1607(TE85L,F) DTA124GKAT146 DTA144WETL DTA144WKAT146 DTC113EET1G DTC115TETL DTC115TKAT146

DTC124TETL DTC144ECA-TP DTC144VUAT106 MUN5241T1G NSBA114TDP6T5G NSBA143ZF3T5G NSBC114YF3T5G

NSBC123TF3T5G SMUN5235T1G SMUN5330DW1T1G SSVMUN5312DW1T2G RN1303(TE85L,F) RN4605(TE85L,F)

TTEPROTOTYPE79 DDTC114EUAQ-7-F EMH15T2R SMUN2214T3G NSBC114TF3T5G NSBC143ZPDP6T5G

NSVMUN5113DW1T3G SMUN5230DW1T1G SMUN5133T1G SMUN2214T1G DTC114EUA-TP NSBA144EF3T5G

NSVDTA114EET1G 2SC2223-T1B-A 2SC3912-TB-E SMUN5237DW1T1G SMUN5213DW1T1G SMUN5114DW1T1G SMUN2111T1G

NSVDTC144EM3T5G DTC124ECA-TP DTC123TM3T5G DTA114ECA-TP DTA113EM3T5G DCX115EK-7-F DTC113EM3T5G

NSVMUN5135DW1T1G NSVDTC143ZM3T5G SMUN5216DW1T1G NSVMUN5312DW1T2G