

Features

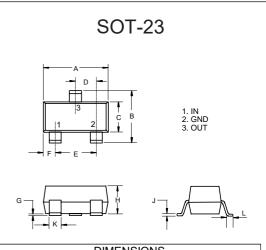
- Built-In Bias Resistors Enable the Configuration of an Inverter Circuit without Connecting External Input Resistors
- The Bias Resistors Consist of Thin-Film Resistors with Complete Isolation to Allow Negative Biasing of the Input. They Also Have the Advantage of Almost Completely Eliminating Parasitic 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 Noted

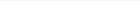
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}			-50	V
Input Voltage	V _{IN}	-10		5	V
Output Current	Ι _ο			-100	mA
Power Dissipation	PD			200	mW
Junction Temperature	TJ	-55		150	°C
Storage Temperature	T _{stg}	-55		150	°C

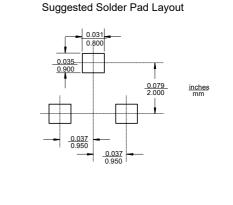
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



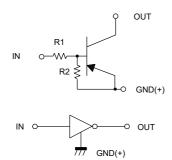


	DIMENSIONS				
DIM	INCI	INCHES		М	NOTE
DIVI	MIN	MAX	MIN	MAX	NOTE
А	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020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





Internal Structure





Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Collector-Emitter Cutoff Current	I _{CEO}			-500	nA	V _{CE} =-50V,I _B =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V_{CB} =-50V,I _E =0
Emitter-Base Cutoff Current	I _{EBO}		-1400	-2500	μA	V_{BE} =-6V,I _C =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	-50			V	I _C =-2mA,I _B =0
Collector-Base Breakdown Voltage	BV _{CBO}	-50			V	Ι _C =-100μΑ,Ι _E =0
Emitter-Base Breakdown Voltage	BV _{EBO}	-6			V	I _E =-2mA,I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}		-0.1	-0.25	V	I _C =-10mA,I _B =-5mA
Input Resistance	R ₁	1.5	2.2	2.9	KΩ	
Resistance ratio	R ₁ /R ₂	0.8	1	1.2		
DC Current Gain	h _{FE}	30				V _{CE} =-10V,I _C =-20mA



Curve Characteristics

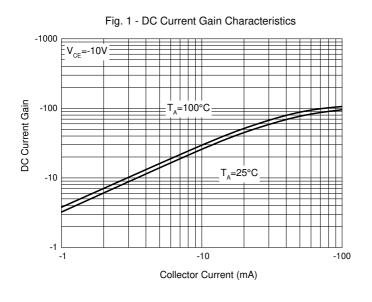
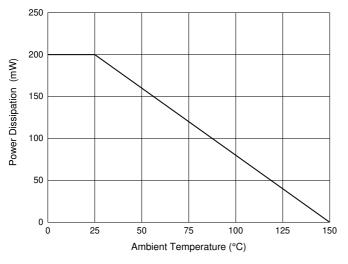


Fig. 3 - Power Derating Curve



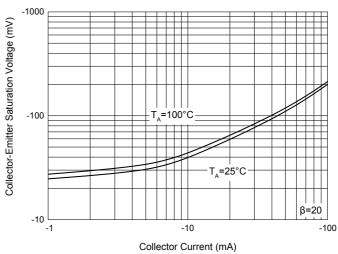


Fig. 2 - Collector-Emitter Saturation Voltage Characteristics

Rev.3-3-12012020



Ordering Information

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

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