

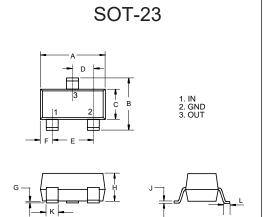
Features

- Epitaxial Planar Die Construction
- Built-In Biasing Resistors
- 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

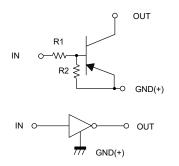
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{cc}		-50		V
Input Voltage	V _{IN}	-12		+5	V
Output Current	I _o		-100		mA
Power Dissipation	P _D		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C



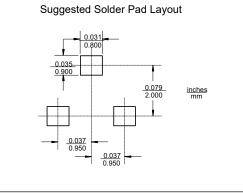
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: 52

Internal Structure



				1			
DIMENSIONS							
DIM	INCI	HES	Μ	IM	NOTE		
	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			
Е	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			
Κ	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
Input Valtage	V _{I(off)}	-0.3			V	V _{CC} =-5V, I _O =-100µA
Input Voltage	V _{I(on)}			-3.0	V	V _o =-0.3V, I _o =-20mA
Output Voltage	V _{O(on)}			-0.3	V	I _o =-10mA,I _I =-0.5mA
Input Current	I _I			-3.8	mA	V _I =-5V
Output Current	I _{O(off)}			-0.5	μA	V _{CC} =-50V, V _I =0
DC Current Gain	GI	33				V _o =-5V, I _o =-10mA
Input Resistance	R ₁	1.54	2.2	2.86	KΩ	
Resistance Ratio	R ₂ /R ₁	3.6	4.5	5.5		
Transition Frequency	f _T		250		MHz	V _{CE} =-10V, I _E =5mA, f=100MHz



Curve Characteristics

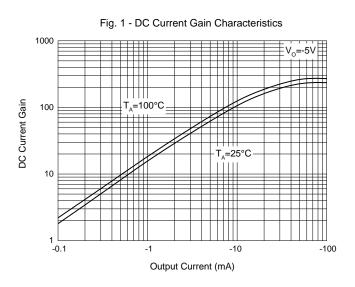
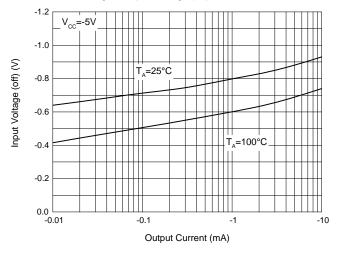


Fig. 3 - Input Voltage (off) Characteristics





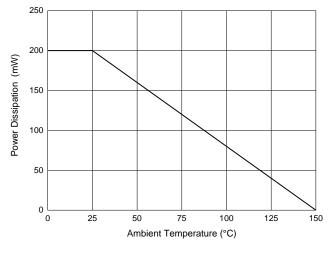


Fig. 2 - Input Voltage (on) Characteristics

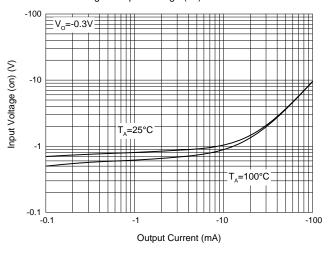
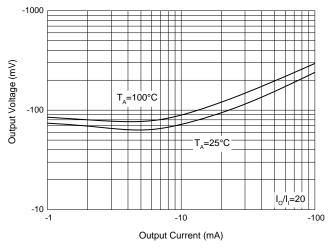


Fig. 4 - Output Voltage Characteristics





Ordering Information

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

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