

Features

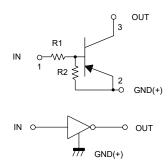
- Epitaxial Planar Die Construction
- Untrl Small Surface Mount Package
- Built-In Biasing Resistors
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant.See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Noted

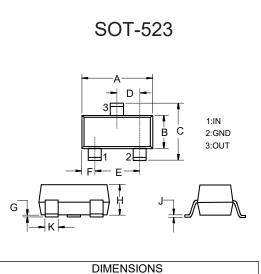
Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{CC}		-50		V
Input Voltage	V _{IN}	-40		10	V
Collector Current	Ι _c		-50	-100	mA
Power Dissipation	P _D		150		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T _{stg}	-55		150	°C



Internal Structure

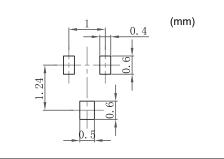






DIMENSIONS						
DIM	INCHES		М	М	NOTE	
Divi	MIN	MAX	MIN MAX		NOTE	
A	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.0	020	0.	50	TYP.	
E	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout



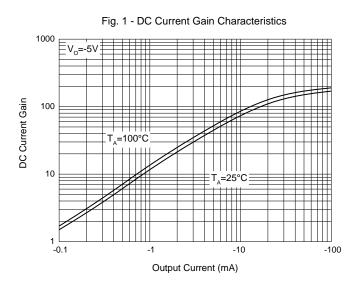


Electrical Characteristics @ 25°C Unless Otherwise Specified

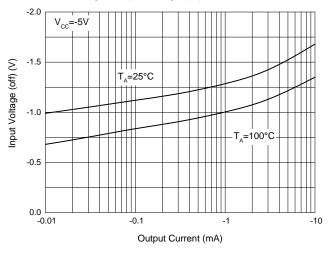
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	V _{I(off)}	-0.5			V	V _{cc} =-5V, Ι _o =-100μA
	V _{I(on)}			-3.0	V	V _o =-0.3V, I _o =-10mA
Output Voltage	V _{O(on)}			-0.3	V	I _o =-10mA,I _I =-0.5mA
Input Current	I _I			-0.88	mA	V _I =-5V
Output Current	I _{O(off)}			-0.5	μA	V _{CC} =-50V, V _I =0
DC Current Gain	Gı	30				V _o =-5V, I _o =-5mA
Input Resistance	R ₁	7.0	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

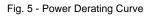


Curve Characteristics









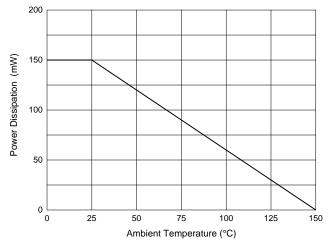


Fig. 2 - Input Voltage (on) Characteristics

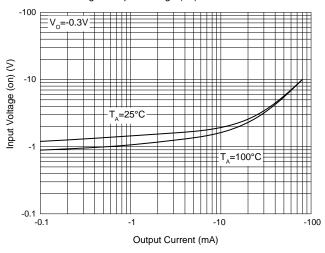
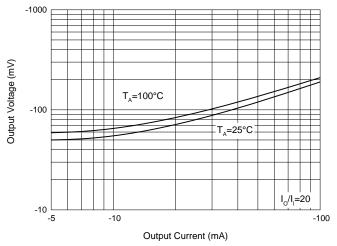


Fig. 4 - Output Voltage Characteristics





Ordering Information

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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