

## Features

- Epitaxial Planar Die Construction
- 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)

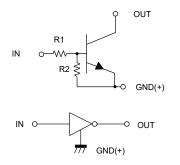


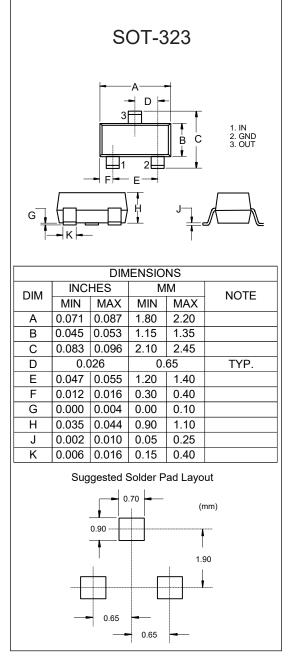
## Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V <sub>cc</sub>			50	V
Input Voltage	V <sub>IN</sub>	-10		30	V
Collector Current	I <sub>c</sub>		100		mA
Power Dissipation	P <sub>D</sub>		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature	T <sub>stg</sub>	-55		150	°C



### Internal Structure







# Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	V <sub>I(off)</sub>	0.5			V	V <sub>CC</sub> =5V, I <sub>O</sub> =100µA
	V <sub>I(on)</sub>			3.0	V	V <sub>0</sub> =0.3V, I <sub>0</sub> =20mA
Output Voltage	V <sub>O(on)</sub>			0.3	V	I <sub>o</sub> =10mA,I <sub>I</sub> =0.5mA
Input Current	I <sub>I</sub>			1.8	mA	V <sub>I</sub> =5V
Output Current	I <sub>O(off)</sub>			0.5	μA	V <sub>CC</sub> =50V, V <sub>I</sub> =0
DC Current Gain	Gı	20				V <sub>o</sub> =5V, I <sub>o</sub> =10mA
Input Resistance	R <sub>1</sub>	3.29	4.7	6.11	KΩ	
Resistance Ratio	R <sub>2</sub> /R <sub>1</sub>	0.8	1.0	1.2		
Transition Frequency	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =10V, I <sub>E</sub> =-5mA, f=100MHz





## **Curve Characteristics**

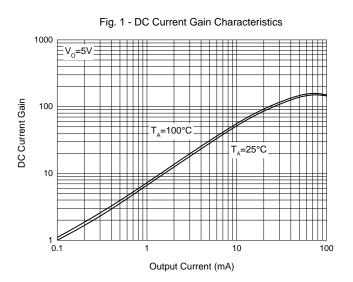
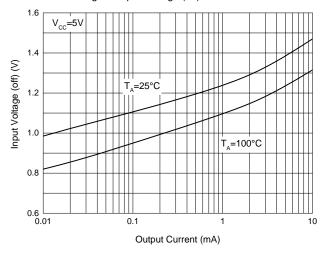


Fig. 3 - Input Voltage (off) Characteristics





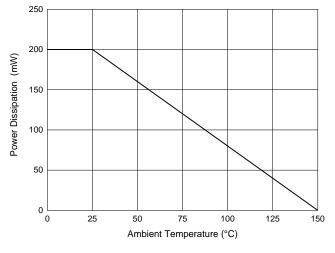


Fig. 2 - Input Voltage (on) Characteristics

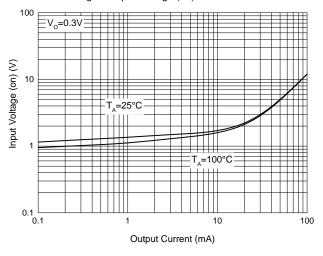
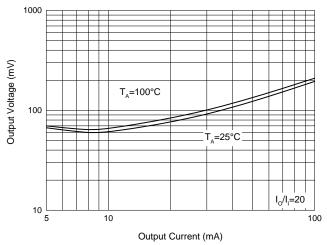


Fig. 4 - Output Voltage Characteristics





## **Ordering Information**

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

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

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