

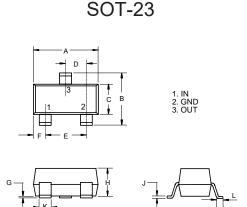
### Features

- 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

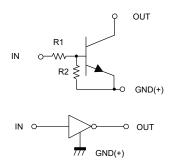
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Parameter	Symbol	Min	Тур	Мах	Unit
Supply Voltage	V <sub>cc</sub>		50		V
Input Voltage	V <sub>IN</sub>	-5		+30	V
Collector Current	I <sub>c</sub>		100		mA
Power Dissipation	P <sub>D</sub>			246	mW
Junction Temperature	TJ			150	°C
Storage Temperature	T <sub>stg</sub>	-55		150	°C

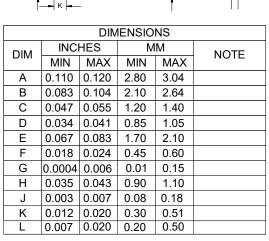


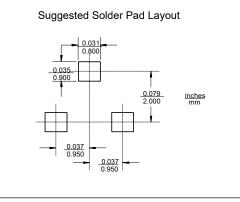
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: E23

#### Internal Structure



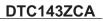






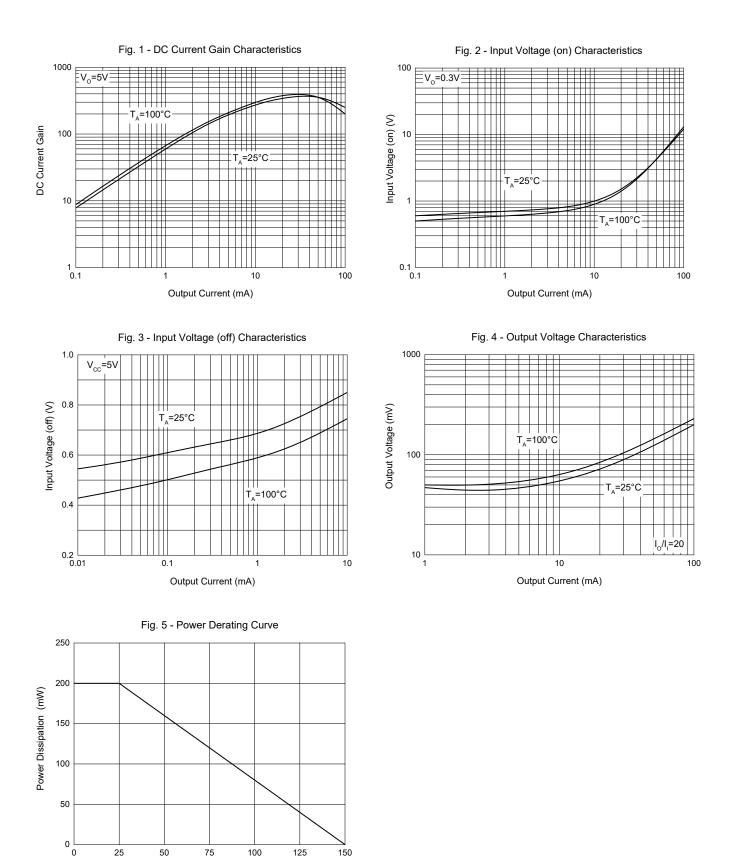
# Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
	V <sub>I(off)</sub>	0.5			V	V <sub>CC</sub> =5V, I <sub>O</sub> =100µA
Input Voltage	V <sub>I(on)</sub>			1.3	V	V <sub>0</sub> =0.3V, I <sub>0</sub> =5mA
Output Voltage	V <sub>O(on)</sub>			0.3	V	I <sub>O</sub> =5mA,I <sub>I</sub> =0.25mA
Input Current	I,			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	80				$V_0=5V$ , $I_0=10mA$
Input Resistance	R <sub>1</sub>	3.29	4.7	6.11	KΩ	
Resistance Ratio	R <sub>2</sub> /R <sub>1</sub>	8	10	12		
Transition Frequency	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =10V, I <sub>E</sub> =-5mA, f=100MHz





### **Curve Characteristics**



Ambient Temperature (°C)



## **Ordering Information**

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

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