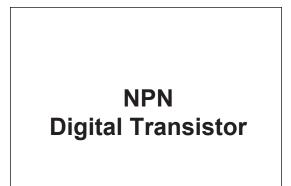


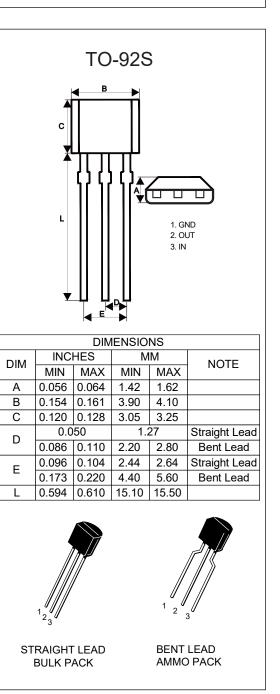
Features

- 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)

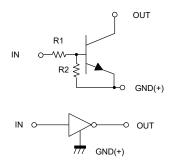


Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage	V _{cc}			50	V
Input Voltage	V _{IN}	-10		30	V
Collector Current	Ι _C		100		mA
Power Dissipation	P _D		300		mW
Junction Temperature	TJ		150		°C
Storage Temperature	T _{stg}	-55		150	°C



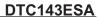
Internal Structure





Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Unit	Conditions
Input Voltage	V _{I(off)}	0.5			V	V _{CC} =5V, I _O =100µA
	V _{I(on)}			3.0	V	V ₀ =0.3V, I ₀ =20mA
Output Voltage	V _{O(on)}			0.3	V	I _o =10mA,I _I =0.5mA
Input Current	I _I			1.8	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	Gı	20				$V_0=5V, I_0=10mA$
Input Resistance	R ₁	3.29	4.7	6.11	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

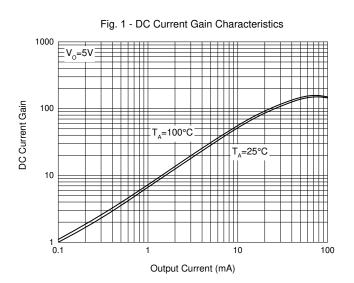
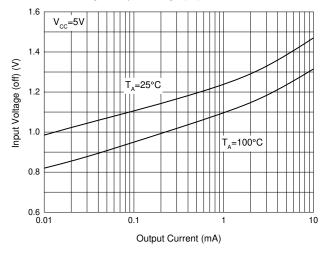
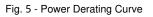


Fig. 3 - Input Voltage (off) Characteristics





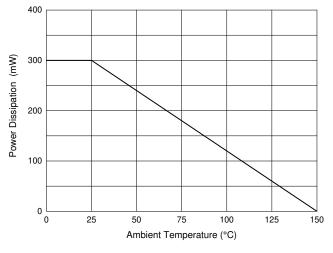


Fig. 2 - Input Voltage (on) Characteristics

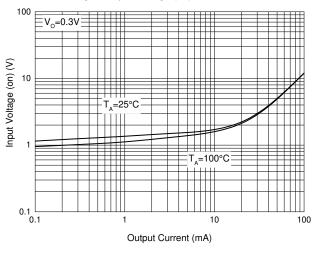
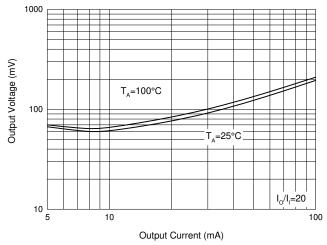


Fig. 4 - Output Voltage Characteristics





Ordering Information

Device	Packing		
Part Number-AP	Ammo Packing: 30Kpcs/Carton		
Part Number-BP	Bulk: 100Kpcs/Carton		

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

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