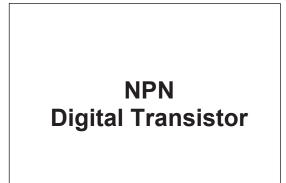


Features

- Built-In Biasing Resistors
- AEC-Q101 Qualified
- 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

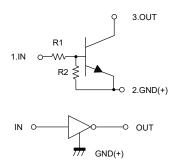
• Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	-10~+30	V
Output Current	Ι _Ο	100	mA
Power Dissipation	P _D	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

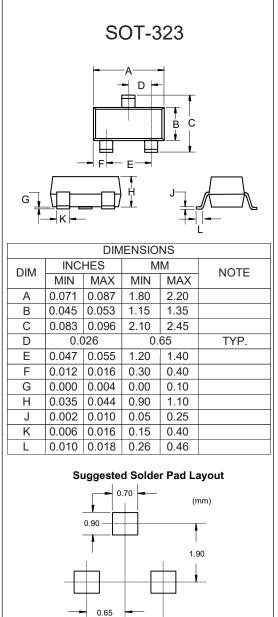
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

Device Marking



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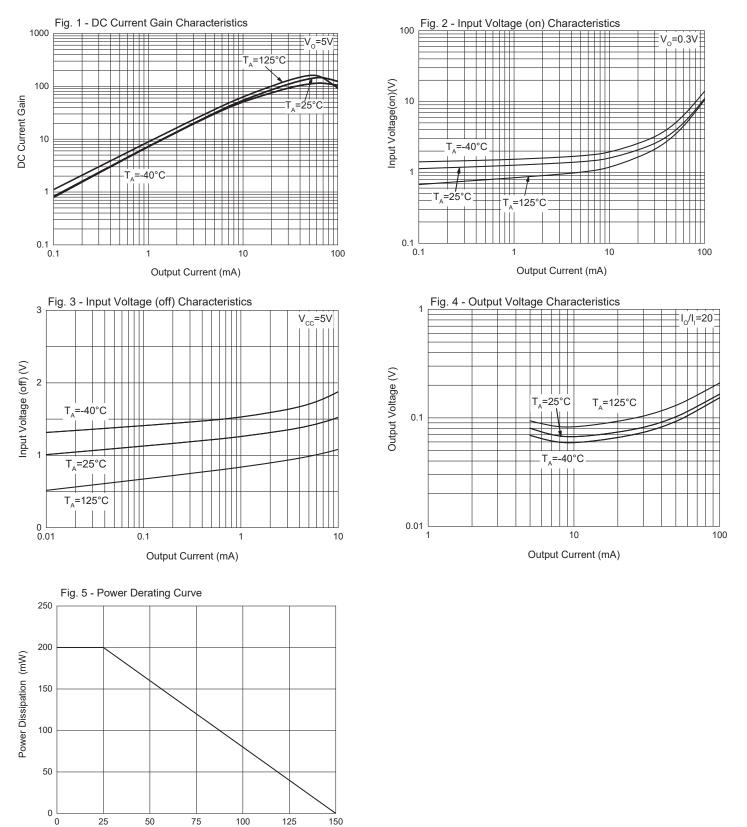


Electrical Characteristics @ 25°C Unless Otherwise Specified

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 _o =5V, I _o =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 _C =5mA, f=100MHz



Curve Characteristics



Ambient Temperature (°C)



Ordering Information

Device	Packing
DTC143EUAHE3-TP	Tape&Reel:3Kpcs/Reel

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