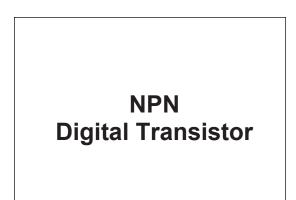


Features

- 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 Noted

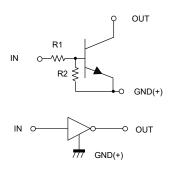


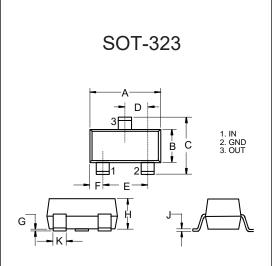
Parameter Symbol Min Тур Max Unit V V_{cc} 50 Supply Voltage ---____ V_{IN} V Input Voltage -5 ---12 I_0 100 mΑ ------Output Current I_{C(Max)} 100 mΑ --- P_D Power Dissipation 200 mW Junction Temperature ТJ 150 °C ------°C Storage Temperature T_{stg} -55 150 ---

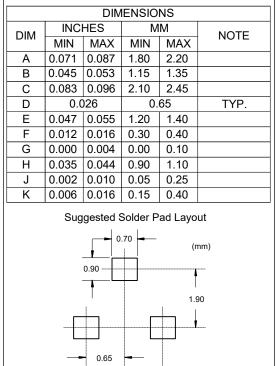
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: E42

Internal Structure







0.65

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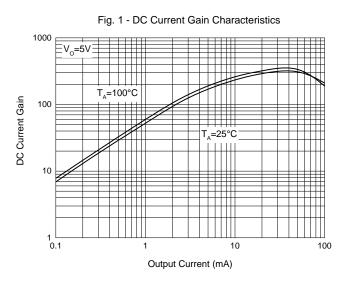


Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	V _{I(off)}			0.5	V	V _{CC} =5V, Ι _O =100μA
Input Voltage	V _{I(on)}	1.1			V	V ₀ =0.3V, I ₀ =5mA
Output Voltage	V _{O(on)}		0.1	0.3	V	I _o =5mA,I _I =0.25mA
Input Current	I _I			3.6	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
Collector-Base Cut-Off Current	I _{CBO}			0.5	μA	V _{CB} =50V, I _E =0
Collector-Emitter Cutoff Current	I _{CEO}			1	μA	V _{CE} =30V, I _B =0A
Emitter-Base Cutoff Current	I _{EBO}			0.2	mA	V _{EB} =5V, I _C =0A
DC Current Gain	Gı	80				V _O =5V, I _O =10mA
Input Resistance	R ₁	1.54	2.2	2.86	KΩ	
Resistance Ratio	R ₂ /R ₁	17	21	26		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =-5mA, f=100MHz



Curve Characteristics



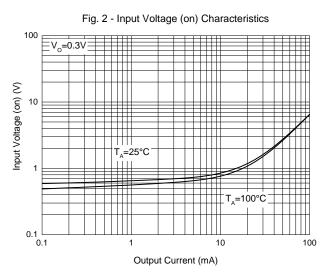
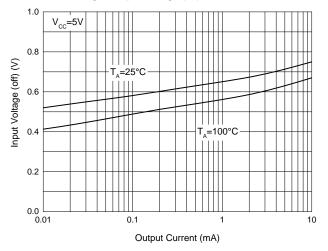


Fig. 3 - Input Voltage (off) Characteristics





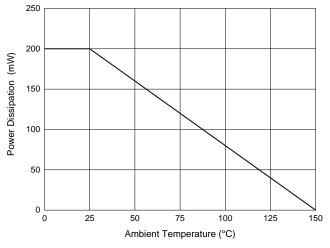
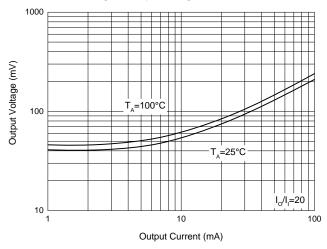


Fig. 4 - Output Voltage Characteristics





Ordering Information

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

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