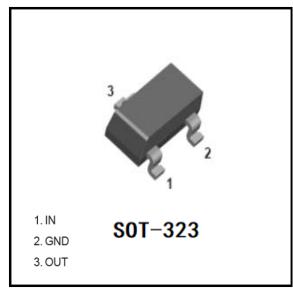
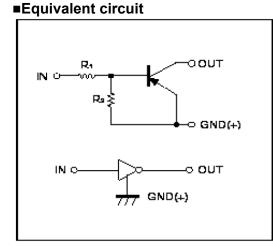
Digital Transistors (Built-in Resistors)



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■Maximum Ratings (Ta=25°C Unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	Vcc	V		-50
Input Voltage	V _{IN}	V		-30 to +10
Output Current	Ι _ο	mA		-100
Power Dissipation	P _D	mW		200
Junction Temperature	Tj	°C		150
Storage Temperature	T _{STG}	°C		-55 to +150

- Epoxy meets UL-94 V-0 flammability rating
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- Surface mount package ideally Suited for Automatic Insertion
- PNP

Mechanical Data

- Package: SOT-323
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking: 13

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DTA143EUA

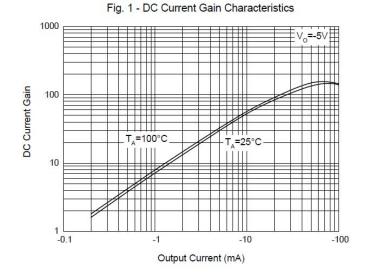
■Electrical Characteristics (Ta=25°C unless otherwise specified)

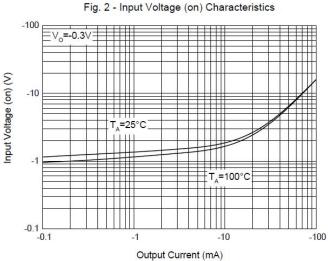
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	MAX
	VI _(off)	V	V _{cc} =-5V,Ic=-100uA	-0.5		
Input voltage	VI _(on)	V	Vo=-0.3V,Ic=-20mA			-3
Output voltage	Vo _(on)	V	lo /li =-10mA/-0.5 mA			-0.3
Input current	h	mA	V=-5V			-1.8
Output current	I _{O(off)}	uA	V _{cc} =-50V, Vi=0			-0.5
DC current gain	GI		Vo=-5V, lo =-10mA	30		
Input resistance	R ₁	kΩ		3.29	4.7	6.11
Resistance ratio	R ₂ /R ₁			0.8	1.0	1.2
Transition frequency	f _T	MHz	V_{CE} =-10V,I _E =5mA,f=100MHz		250	

Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DTA143EUA	F2	Approximate 0.009	3000	30000	120000	7" reel

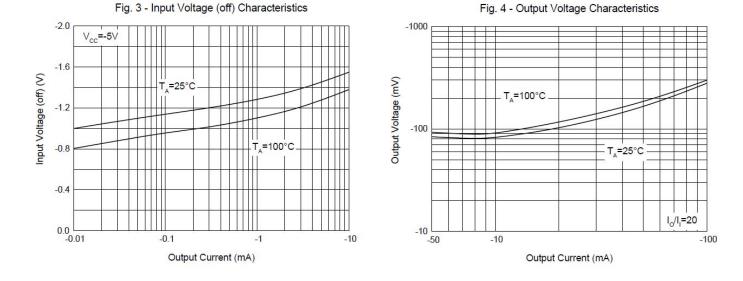
Characteristics (Typical)



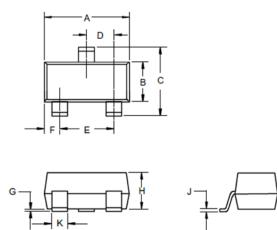


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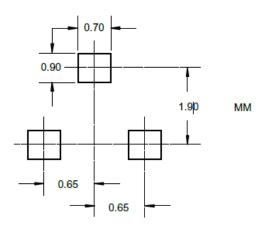


■SOT-323 Package Outline Dimensions



DIMENSIONS						
	INCHES		м			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.083	.096	2.10	2.45		
D	.026 Nominal		0.65Nominal			
E	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Н	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.006	.016	.15	.40		

■SOT-323 Suggested Pad Layout





DTA143EUA

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 2N4401-A
 2N6728
 2SA1419T-TD-H
 2SA2126-E
 2SB1204S-TL-E
 2SC2712S-GR,LF
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