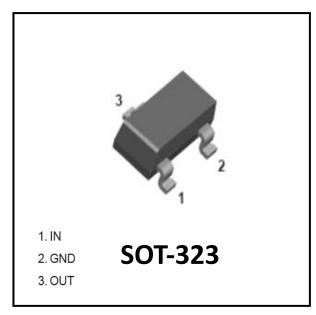
Digital Transistors (Built-in Resistors)



■Equivalent circuit

Features

•Epoxy meets UL-94 V-0 flammability rating

Moisture Sensitivity Level 1

•Built-in bias resistors enable the configuration of an inverter circuit

without connecting external input resistors

•Surface mount package ideally Suited for Automatic

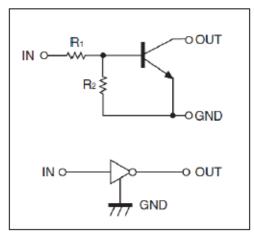
Insertion

•NPN

Mechanical Data

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

• Marking: 26



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	Vcc	V		50
Input Voltage	V _{IN}	V		-10 to +40
Collector Current	Ι _C	mA		100
Power Dissipation	P _D	mW		200
Junction Temperature	Tj	°C		150
Storage Temperature	Tstg	°		-55 to +150

DTC144EUA

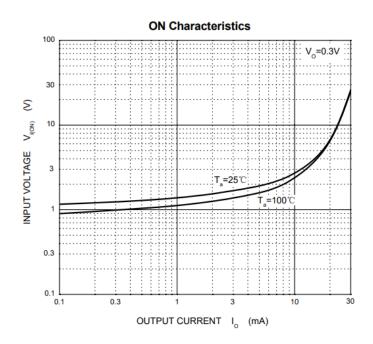
■Electrical Characteristics (Ta=25°C unless otherwise specified)

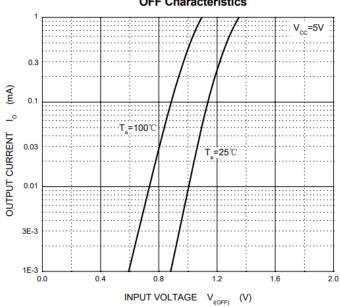
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	MAX
	V _{I(off)}	V	VCC=5V,Io=100uA	0.3		
Input voltage	V _{I(on)}	V	Vo=0.3V,Io=2mA			3
Output voltage	V _{O(on)}	V	lo /li =10mA/0.5 mA			0.3
Input current	Ш	mA	VI=5V			0.18
Output current	I _{O(off)}	uA	VCC=50V, Vi=0			0.5
DC current gain	Gı		Vo=5V, lo =5mA	68		
Input resistance	R ₁	kΩ		32.9	47	61.1
Resistance ratio	R ₂ /R ₁			0.8	1	1.2
Transition frequency	f _T	MHz	Vo=10V,I ₀ =5mA,f=100MHz		250	

Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	-	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DTC144EUA	F2	Approximate 0.005	3000	30000	120000	7" reel

Characteristics (Typical)



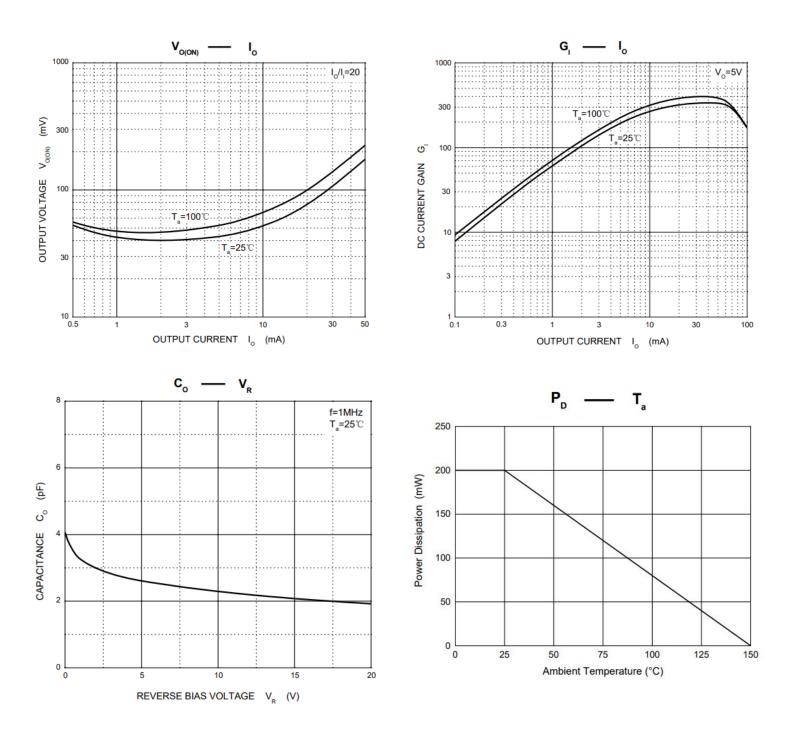


OFF Characteristics

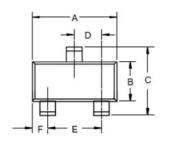
2/5

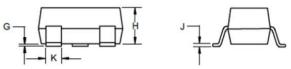


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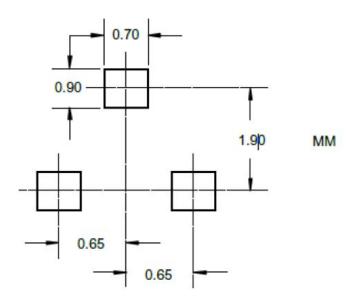
■SOT-323 Package Outline Dimensions





		DIMEN	SIONS		
DIM	INC	HES	м		
	MIN	MAX	MIN	MAX	NOTE
Α	.071	.087	1.80	2.20	
В	.045	.053	1.15	1.35	
C	.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 Soldering Footprint





DTC144EUA

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 NTE195A
 NTE92
 C4460
 2N4401-A
 2N6728
 2SA1419T-TD-H
 2SA2126-E
 2SB1204S-TL-E
 2SC2712S-GR,LF
 2SC5488A-TL-H

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