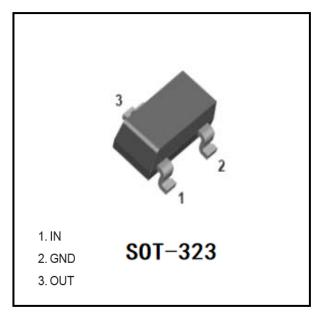
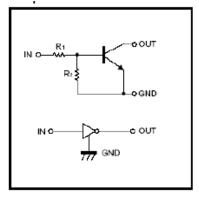
Digital Transistors (Built-in Resistors)



Equivalent circuit



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	VCC	V		50
Input Voltage	VIN	V		-10 to +40
Output Current	IO	mA		100
Power Dissipation	PD	mW		200
Junction Temperature	Tj	°C		150
Storage Temperature	TSTG	°C		-55 to +150

- •Epoxy meets UL-94 V-0 flammability rating
- Moisure 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
- J-STD-002 and JESD22-B102 Polarity: Cathode line denotes the cathode end Marking: 24 • Terminals: Tin plated leads, solderable per

1/4

DTC114EUA

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

ITEM	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	MAX
	VI _(off)	V	VCC=5V,Ic=100uA	0.5		
Input voltage	VI _(on)	V	V0=0.3V,Ic=10mA			3
Output voltage	Vo _(on)	V	lo /li =10mA/0.5 mA			0.3
Output current	I _{O(off)}	uA	VCC=50V, Vi=0			0.1
DC current gain	GI		Vo=5V, lo =5mA	30		
Input resistance	R ₁	kΩ		7	10	13
Resistance ratio	R ₂ /R ₁			0.8	1	1.2
Transition frequency	fT	MHz	Vo=10V,IO=5mA,f=100MHz		250	

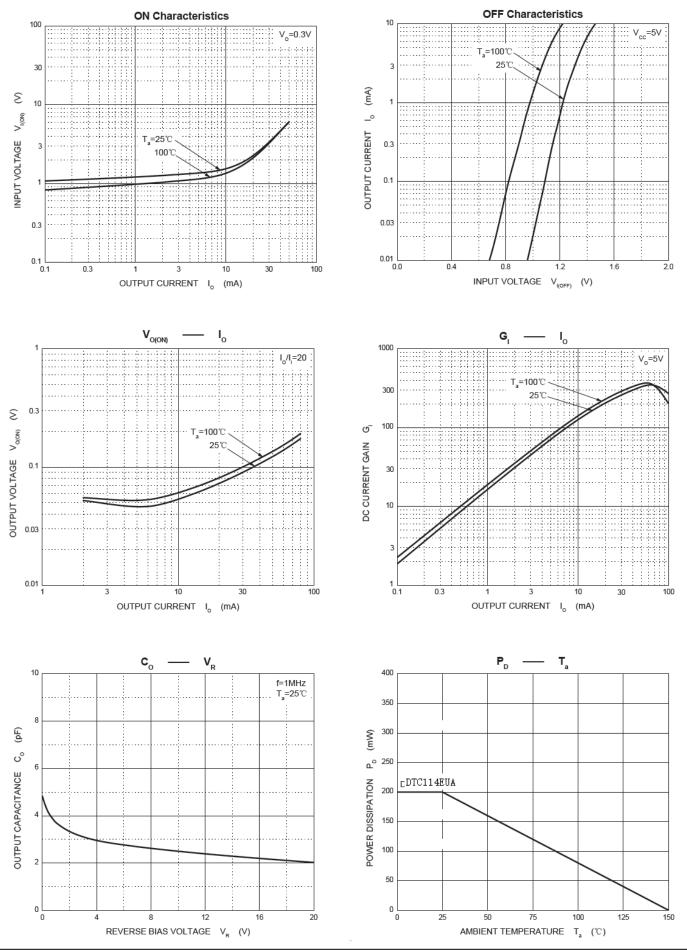
Ordering Information (Example)

PREFERED P	/N PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
DTC114EUA	F2	Approximate 0.005	3000	30000	120000	7" reel	



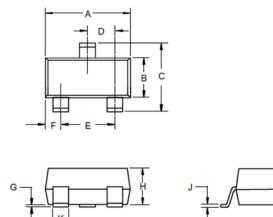
DTC114EUA

Characteristics (Typical)



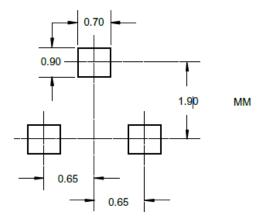


SOT-323 Package Outline Dimensions



	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



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Yangjie manufacturer:

Other Similar products are found below :

 619691C
 MCH4017-TL-H
 MMBT-2369-TR
 BC546/116
 BC557/116
 BSW67A
 NJVMJD148T4G
 NTE123AP-10
 NTE153MCP
 NTE16

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

 2SD2150T100R
 SP000011176
 2N2907A
 2N3904-NS
 2N5769
 2SC2412KT146S
 2SD1816S-TL-E
 CPH6501-TL-E
 MCH4021-TL-E

 MJE340
 US6T6TR
 NJL0281DG
 732314D
 CPH3121-TL-E
 CPH6021-TL-H
 873787E
 IMZ2AT108
 UMX21NTR
 MCH6102-TL-E
 FP204

 TL-E
 NJL0302DG
 2N3583
 2SA2014-TD-E
 2SC2812-5-TB-E
 30A02MH-TL-E
 TN6717A
 NSV40301MZ4T1G
 NTE13
 NTE26
 NTE282