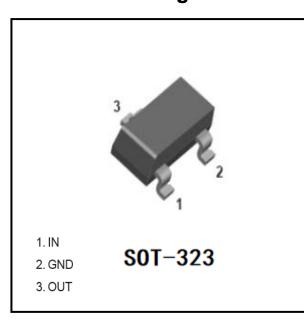






Digital Transistors (Built-in Resistors)



Features

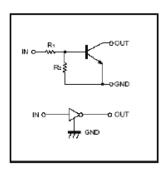
- Epoxy meets UL-94 V-0 flammability rating
- •Moisure Sensitivity Level 1
- •Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- •Surface mount package ideally Suited for Automatic Insertion
- •NPN

Mechanical Data

- Package: SOT-323
- J-STD-002 and JESD22-B102

 Polarity: Cathode line denotes the cathode end
 Marking: 62 • Terminals: Tin plated leads, solderable per

■Equivalent circuit



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	VCC	V		50
Input Voltage	VIN	V		-5to +12
Output Current	Ю	mA		100
Power Dissipation	PD	mW		200
Junction Temperature	Tj	$^{\circ}$		150
Storage Temperature	TSTG	$^{\circ}$		-55 to +150

DTC123YUA

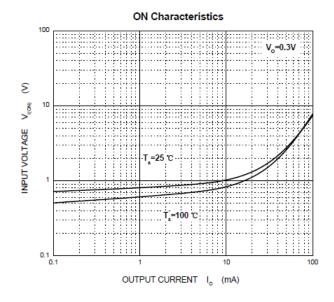
■Electrical Characteristics (Ta=25°C unless otherwise specified)

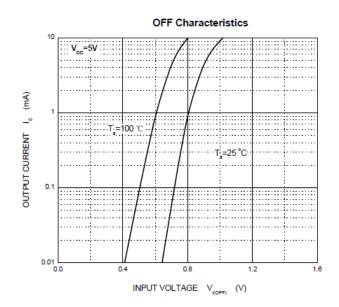
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
Input voltage	VI _(off)	V	VCC=5V,Ic=100uA	0.3		
	VI _(on)	V	V0=0.3V,Ic=20mA			3
Output voltage	Vo _(on)	V	lo /li =10mA/0.5 mA			0.3
Output current	I _{O(off)}	uA	VCC=50V, Vi=0			0.5
DC current gain	GI		Vo=5V, Io =10mA	33		
Input resistance	R ₁	kΩ		1.54	2.2	2.86
Resistance ratio	R ₂ /R ₁			3.7	4.7	5.7
Transition frequency	fT	MHz	Vo=10V,IO=5mA,f=100MHz		250	

■ Ordering Information (Example)

		. 1 /						
	PREFERED P/N	RED P/N PACKING UNIT WEIGHT		MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
	DTC123YUA	F2	Approximate 0.008	3000	30000	120000	7" reel	

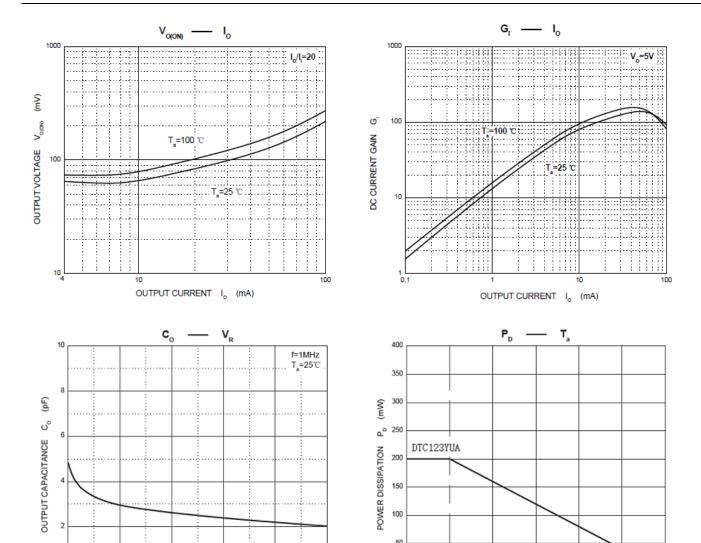
■ Characteristics (Typical)







DTC123YUA

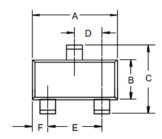


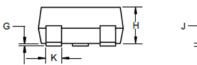
REVERSE BIAS VOLTAGE V_R (V)

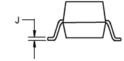
 $_{50}$ $_{75}$ $_{100}$ AMBIENT TEMPERATURE $_{\rm T_a}$ (°C)



■ SOT-323 Package Outline Dimensions

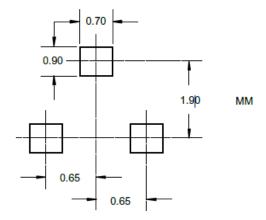






DIMENSIONS							
	INCHES		M				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.071	.087	1.80	2.20			
В	.045	.053	1.15	1.35			
С	.083	.096	2.10	2.45			
D	.026 Nominal		0.65Nominal				
Е	.047	.055	1.20	1.40			
F	.012	.016	.30	.40			
G	.000	.004	.000	.100			
Н	.035	.039	.90	1.00	·		
J	.004	.010	.100	.250			
K	.006	.016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

■ SOT-323 Suggested Pad Layout



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