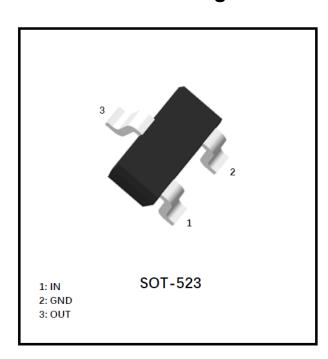




Digital Transistors (Built-in Resistors)



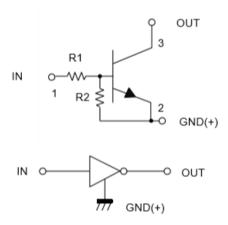
Features

- Moisture Sensitivity Level 1
- Surface mount package ideally Suited for Automatic Insertion
- Epoxy meets UL-94 V-0 flammability rating, halogen-free

Mechanical Data

- Package: SOT-523
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking: 64

■Equivalent circuit



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	V _{cc}	V		50
Input Voltage	V _{IN}	V		-6 to +40
Output Current	Io	mA		100
Power Dissipation	P _D	mW		150
Junction Temperature	TJ	$^{\circ}$		150
Storage Temperature	T _{STG}	$^{\circ}$		-55 to +150



DTC114YE

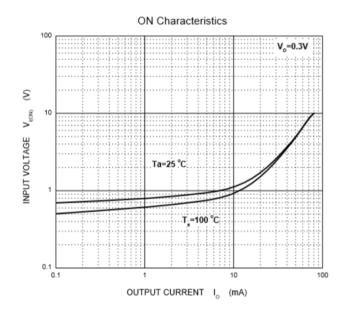
■Electrical Characteristics (Ta=25°C unless otherwise specified)

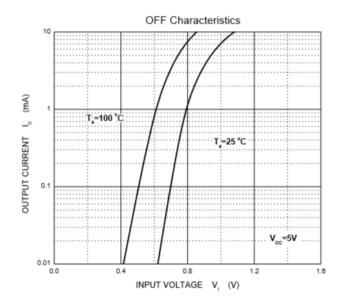
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
lanutus lika sa	$VI_{(off)}$	V	V _{CC} =5V,lo=100uA	0.3		
Input voltage	$VI_{(on)}$	V	V ₀ =0.3V,lo=1mA		1.4	
Output voltage	Vo _(on)	V	lo /li =5mA/0.25mA			0.3
Input current	lı	mA	V _I =5V			0.88
Output current	$I_{O(off)}$	uA	V _{CC} =50V, Vi=0			0.5
DC current gain	Gı		Vo=5V, Io =5mA	68		
Input resistance	R ₁	kΩ		7	10	13
Resistance ratio	R ₂ /R ₁			3.7	4.7	5.7
Transition frequency	f _T	MHz	Vo=10V,I _O =-5mA		250	

■ Ordering Information (Example)

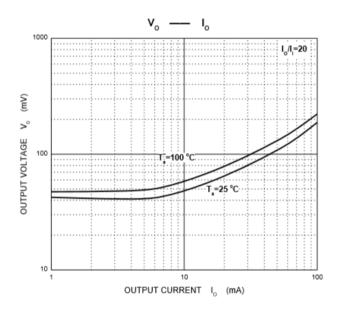
Prefered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
DTC114YE	F2	Approximate 0.0027	3000	30000	120000	7" reel

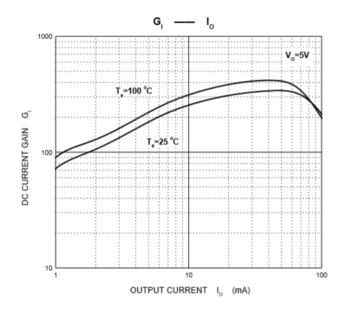
■ Characteristics (Typical)



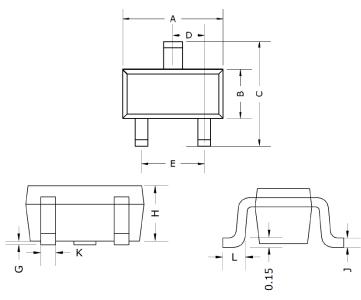








■ SOT-523 Package Outline Dimensions

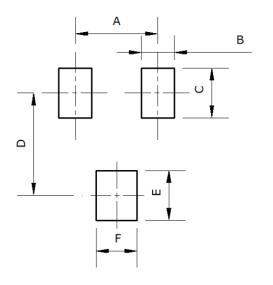


DIMENSIONS					
	INC	HES	MM		
DIM	MIN	MAX	MIN	MAX	
А	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.02	0TYP	0.50TYP		
E	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
К	0.006	0.014	0.15	0.35	
L	0.010	0.018	0.26	0.46	





■ SOT-523 Suggested Pad Layout



DIMENSIONS					
DIM	MM (TYP)				
Α	1.00				
В	0.40				
С	0.60				
D	1.24				
E	0.60				
F	0.50				



DTC114YE

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NSVDTA143EM3T5G NSVB1706DMW5T1G NSBC143EDP6T5G NSBA144WDXV6T1G DTA115TET1G NSBC115TDP6T5G

NSBA113EF3T5G MUN2235T1G NSBC143ZDXV6T5G NSVDTA114EM3T5G MUN2138T1G DCX124EUQ-7-F MUN2141T1G

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