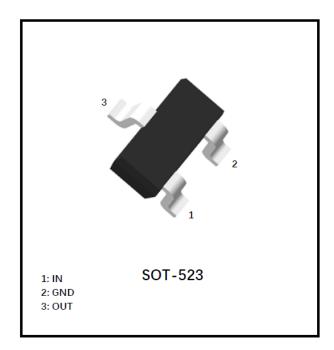
Digital Transistors (Built-in Resistors)



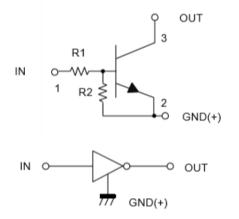
Features

- 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: E23

Equivalent circuit



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	Vcc	V		50
Input Voltage	V _{IN}	V		-5 to +30
Output Current	lo	mA		100
Power Dissipation	P _D	mW		150
Junction Temperature	TJ	°C		150
Storage Temperature	T _{STG}	°C		-55 to +150

DTC143ZE

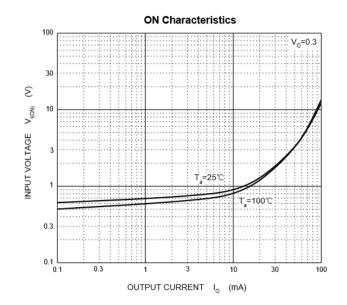
■Electrical Characteristics (Ta=25°C unless otherwise specified)

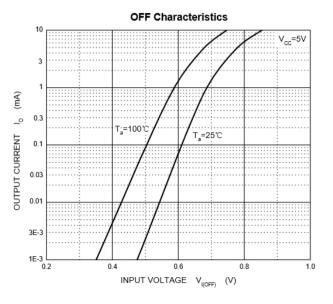
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	МАХ
	VI _(off)	V	V _{cc} =5V,Ic=100uA	0.5		
Input voltage	VI _(on)	V	V ₀ =0.3V,Ic=5mA			1.3
Output voltage	Vo _(on)	V	lo /li =10mA/0.5mA			0.3
Input current	h	mA	VI=5V			1.8
Output current	I _{O(off)}	uA	V _{cc} =50V, Vi=0			0.5
DC current gain	Gı		Vo=5V, lo =10mA	80		
Input resistance	R ₁	kΩ		3.29	4.7	6.11
Resistance ratio	R ₂ /R ₁			8	10	12
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
DTC143ZE	F2	Approximate 0.0027	3000	30000	120000	7" reel

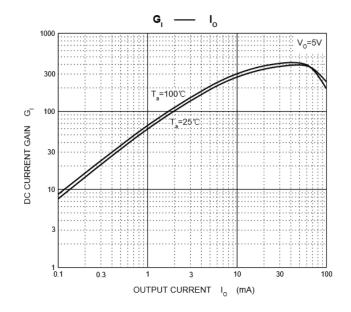
Characteristics (Typical)

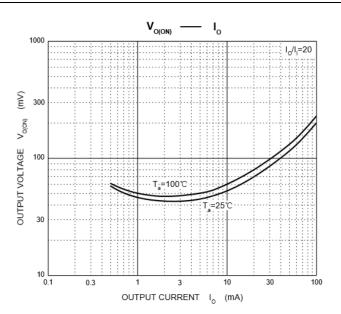




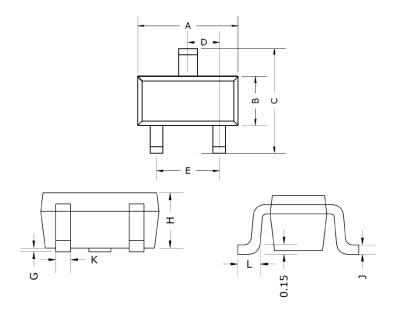
S-S3389 Rev.1.0,25-Sep-20

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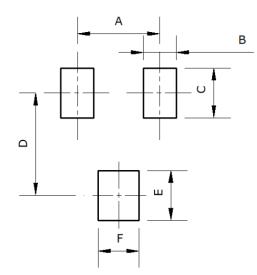
SOT-523 Package Outline Dimensions



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	0.020TYP		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)		
A	1.00		
В	0.40		
С	0.60		
D	1.24		
E	0.60		
F	0.50		



DTC143ZE

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