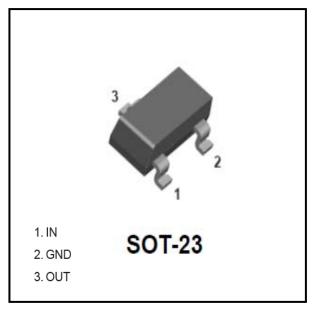
Digital Transistors (Built-in Resistors)



Equivalent circuit

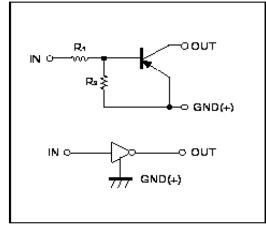
Features

•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
- •PNP

Mechanical Data

- Package: SOT-23
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking: 16



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	VCC	V		-50
Input Voltage	VIN	V		-40 to +10
Output Current	Ю	mA		-30
Power Dissipation	PD	mW		200
Junction Temperature	Tj	°C		150
Storage Temperature	TSTG	°C		-55 to +150

DTA144ECA

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

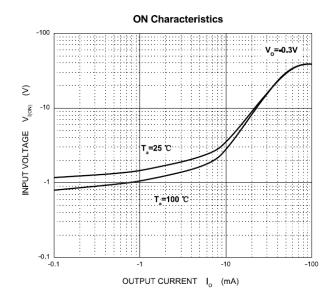
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	МАХ
Input voltage	VI _(off)	V	VCC=-5V,Ic=-100uA	-0.5		
	VI _(on)	V	V0=-0.3V,Ic=-2mA			-3
Output voltage	Vo _(on)	V	lo /li =-10mA/-0.5 mA			-0.3
Input current	Ш	mA	VI=-5V			-0.18
Output current	I _{O(off)}	uA	VCC=-50V, Vi=0			-0.5
DC current gain	GI		Vo=-5V, lo =-5mA	68		
Input resistance	R ₁	kΩ		32.9	47	61.1
Resistance ratio	R ₂ /R ₁			0.8	1	1.2
Transition frequency	fT	MHz	VCE=-10V,IE=-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
DTA144ECA	F2	Approximate 0.009	3000	30000	120000	7" reel

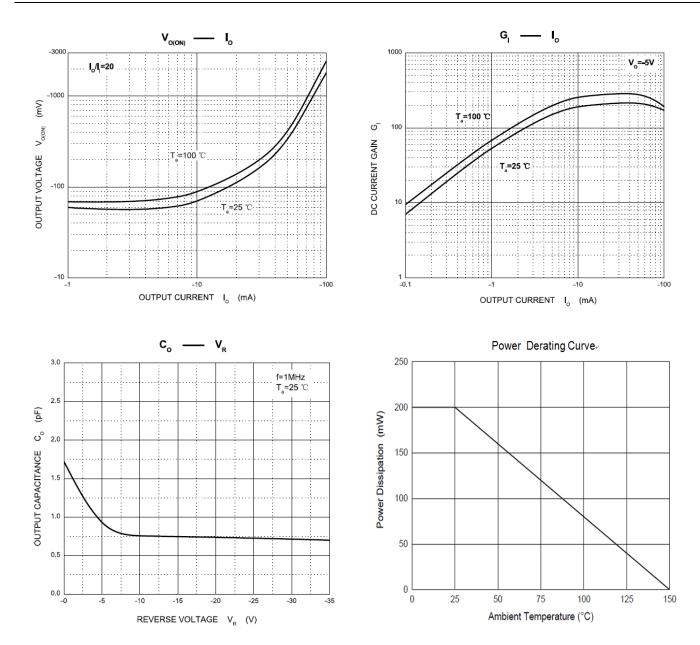
(mA)

Characteristics (Typical)

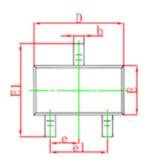


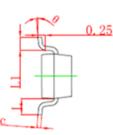
-10 V_{cc}=-5V OUTPUT CURRENT I T_=100 °C T_=25 °C -0.1 -0.01 -0.0 -0.0 -0.5 -1.0 -1.5 -2.0 -2.5 -3.0 -3.5 INPUT VOLTAGE V_{I(OFF)} (V)

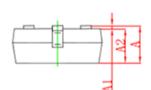
OFF Characteristics



■SOT-23 Package Outline Dimensions

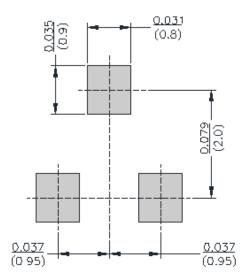






Symbol -	Dimensions Ir	n Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
el	1.800	2.000	0.071	0.079	
L	0. 550REF		0. 022REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8*	

■SOT-23Suggested Pad Layout





DTA144ECA

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