Digital Transistors (Built-in Resistors)

•Epoxy meets UL-94 V-0 flammability rating

without connecting external input resistors

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

•Surface mount package ideally Suited for Automatic

•Built-in bias resistors enable the configuration of an inverter circuit

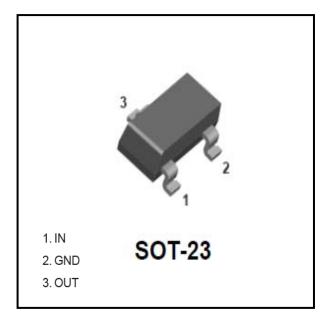
•Moisture Sensitivity Level 1

Mechanical Data • Package: SOT-23

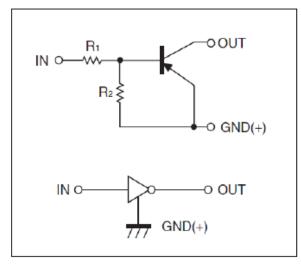
• Marking: 54

Features

Insertion •PNP



■Equivalent circuit



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

ITEM	SYMBOL	UNIT	VALUE
Supply Voltage	V _{cc}	V	-50
Input Voltage	V _{IN}	V	-40 to +6
Output Current	Ι _ο	l _o mA -70	
Peak Collector Current	I _{CM}	mA	-100
Power Dissipation	P _D	mW	200
Junction Temperature	Tj	°C	150
Storage Temperature	Tstg	°C	-55 to +150

DTA114YCA

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

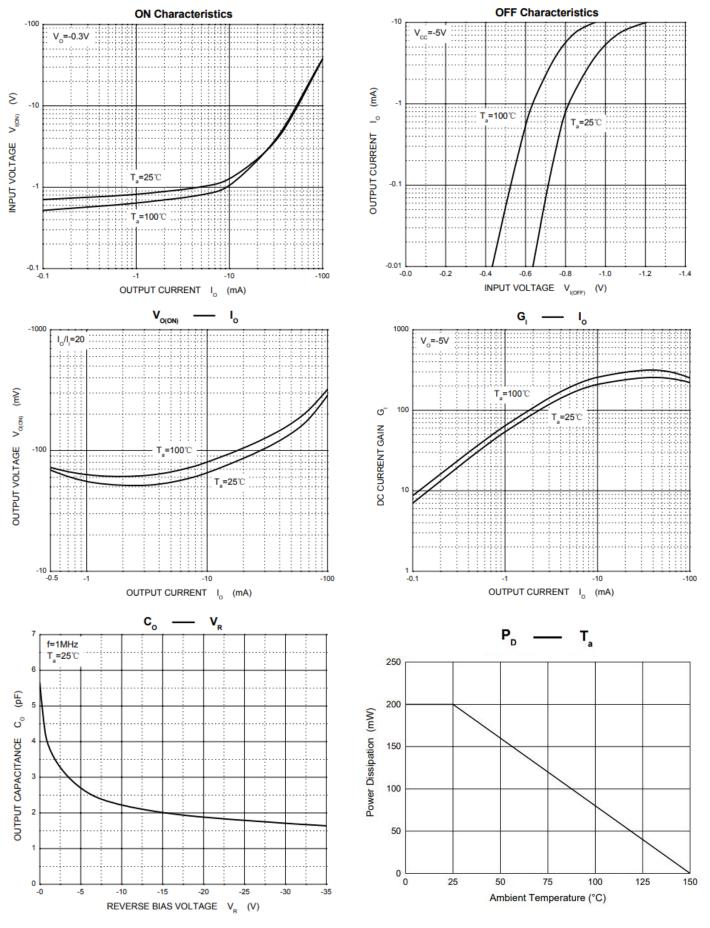
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	МАХ
Input voltage	VI _(off)	V	VCC=-5V,Ic=-100uA	-0.3		
input voltage	VI _(on)	V	V0=-0.3V,Ic=-1mA			-1.4
Output voltage	Vo _(on)	V	lo /li =-5mA/-0.25 mA			-0.3
Output current	I _{O(off)}	uA	VCC=-50V, Vi=0			-0.5
DC current gain	GI		Vo=-5V, lo =-5mA	68		
Input resistance	R ₁	kΩ		7	10	13
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)

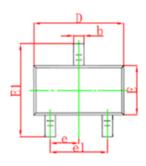
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DTA114YCA	F2	Approximate 0.009	3000	30000	120000	7" reel

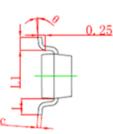
2/5

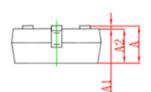
Characteristics (Typical)



■SOT-23 Package Outline Dimensions

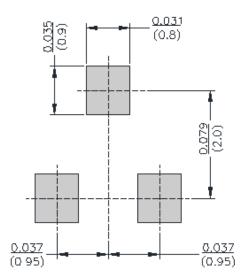






	Dimensions In	Willinstown	Dimensions In Inches		
Symbol	Diaensions In	1 MIIIIBELEIS	Dimensions in Inches		
	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0. 950TYP		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



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DTA114YCA

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