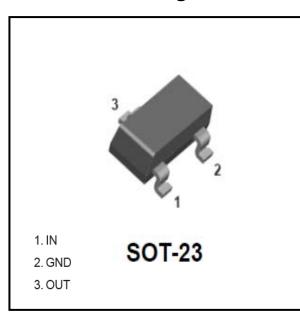






Digital Transistors (Built-in Resistors)



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

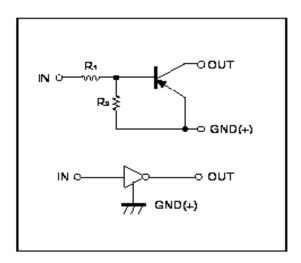
Mechanical Data

• Package: SOT-23

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Marking: E11

■Equivalent circuit



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	VCC	V		-50
Input Voltage	VIN	V		-10 to +5
Output Current	Ю	mA		-100
Power Dissipation	PD	mW		200
Junction Temperature	Tj	$^{\circ}$ C		150
Storage Temperature	TSTG	$^{\circ}$ C		-55 to +150



DTA113ZCA

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

ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
Input voltage	$VI_{(off)}$	٧	VCC=-5V,Ic=100uA	-0.3		
Input voltage	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 =-5mA	33		
Input resistance	R ₁	kΩ		0.7	1.0	1.3
Resistance ratio	R ₂ /R ₁			8	10	12
Transition frequency	fT	MHz	Vo=10V,IO=5mA,f=100MHz		250	

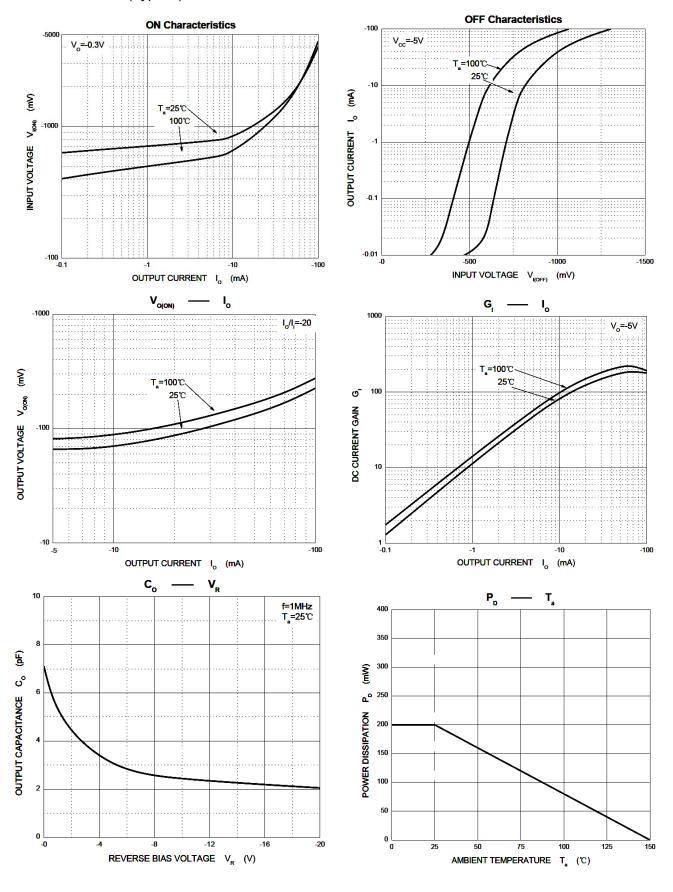
■ Ordering Information (Example)

		\ I /				
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DTA113ZCA	F2	Approximate 0.009	3000	30000	120000	7" reel



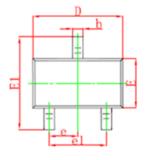


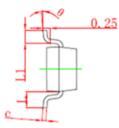
■ Characteristics (Typical)

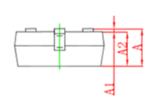




■SOT-23 Package Outline Dimensions

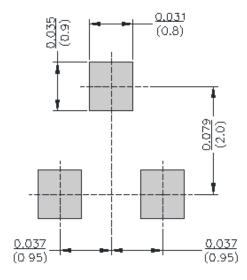






Symbol Symbol	Dimensions In	Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0.900	1. 150	0.035	0. 045	
A1	0.000	0. 100	0.000	0.004	
A2	0.900	1. 050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
с	0. 100	0. 200	0.004	0.008	
D	2.800	3, 000	0. 110	0.118	
Е	1. 200	1. 400	0.047	0. 055	
E1	2. 250	2, 550	0.089	0. 100	
e	0. 95	OTYP	0. 037TYP		
e1	1.800	2.000	0.071	0. 079	
L	0.55	OREF	0. 022REF		
L1	0.300	0. 500	0.012	0.020	
θ	0°	8°	0°	8°	

■SOT-23Suggested Pad Layout





DTA113ZCA

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