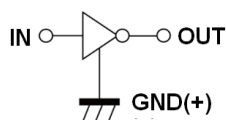
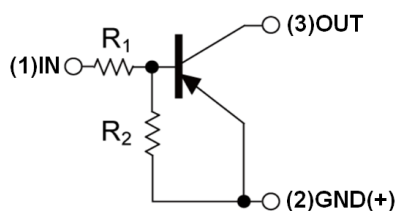
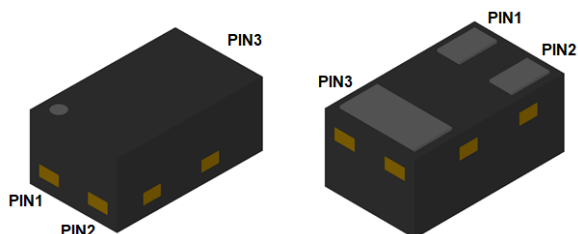


PNP Digital Transistor (Built-in Resistors)



Features

- Halogen free and RoHS compliant.
- Epoxy meets UL-94 V-0 flammability rating.
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors.

Mechanical data

- **Package:** DFN1006-3L
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Value
Device marking code			32
Supply voltage	V_{CC}	V	-50
Input voltage	V_{IN}	V	-12 to +5
Output current	I_o	mA	-100
Power dissipation	P_D	mW	150
Operation junction temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150



DTA123JL3

RoHS
COMPLIANT

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Input voltage	V _{I(OFF)}	V	V _{CC} =-5V, I _O =-100μA	-0.3		
	V _{I(ON)}	V	V _O =-0.3V, I _O =-5mA			-1.1
Output voltage	V _{O(ON)}	V	I _O /I _I =-5mA/-0.25mA			-0.3
Input current	I _I	mA	V _I =-5V			-3.6
Output current	I _{O(OFF)}	μA	V _{CC} =-50V, V _I =0			-0.5
DC current gain	G _I		V _O =-5V, I _O =-10mA	80		
Input resistance	R _I	kΩ		1.54	2.2	2.86
Resistance ratio	R ₂ /R ₁			17	21	26
Transition frequency	f _T	MHz	I _E =-5mA, V _{CE} =-10V, f=100MHz		250	

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{θJA} ⁽¹⁾	°C/W	833

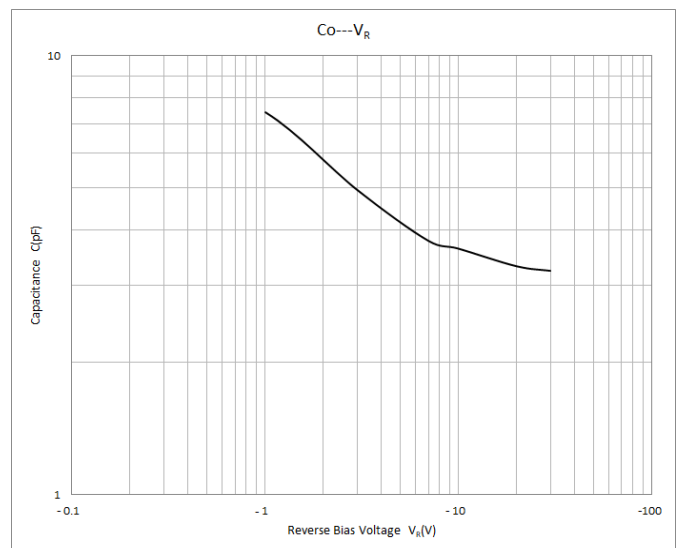
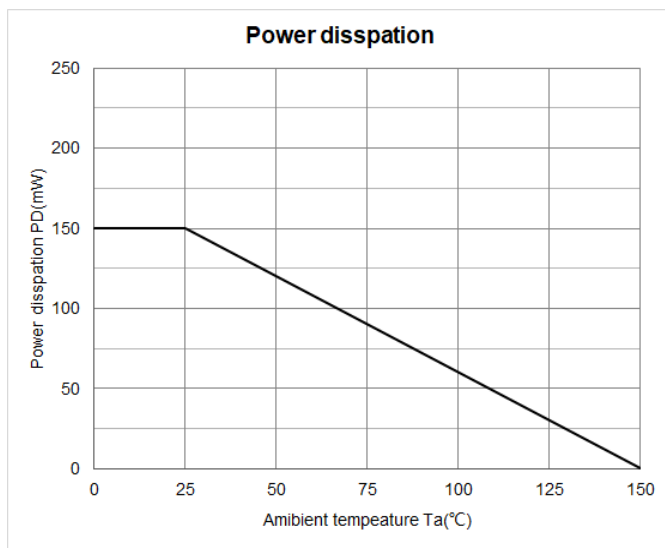
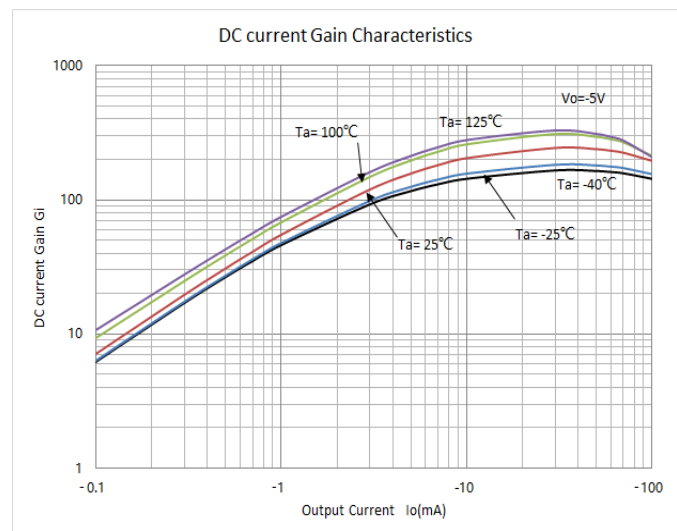
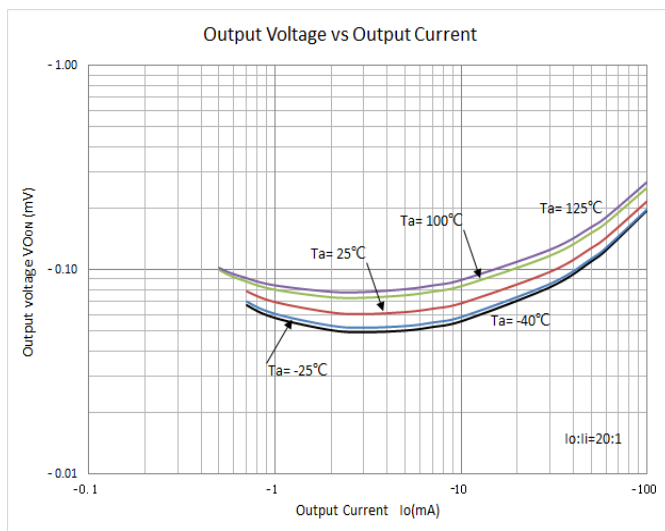
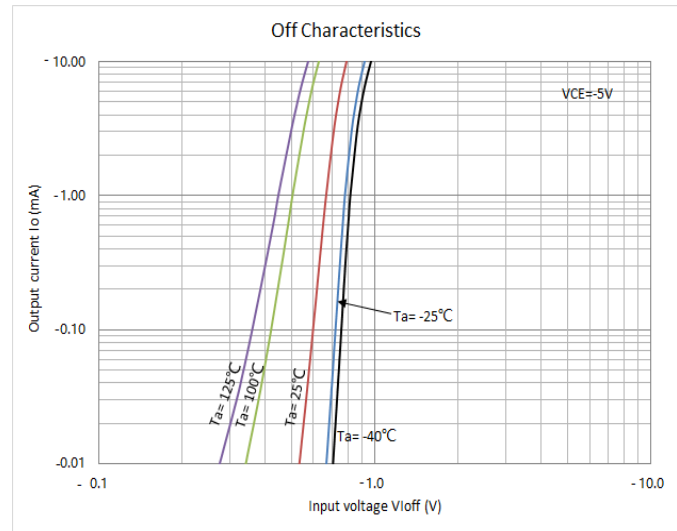
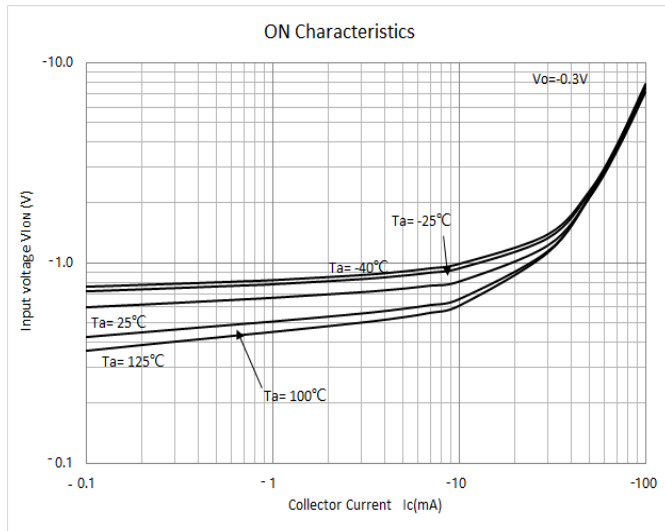
Note:1. Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

■ Ordering Information

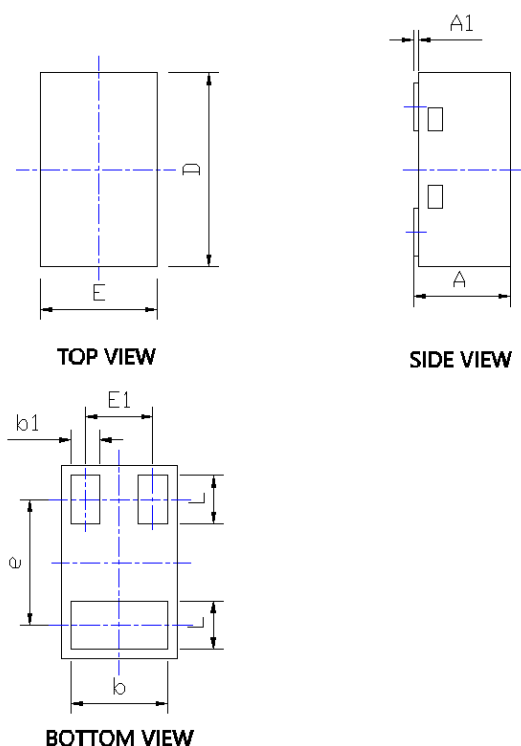
Preferred P/N	Packing code	Unit weight(mg)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
DTA123JL3	F1	Approximate 0.9	10000	100000	400000	Tape & Reel



■ Typical of Characteristics

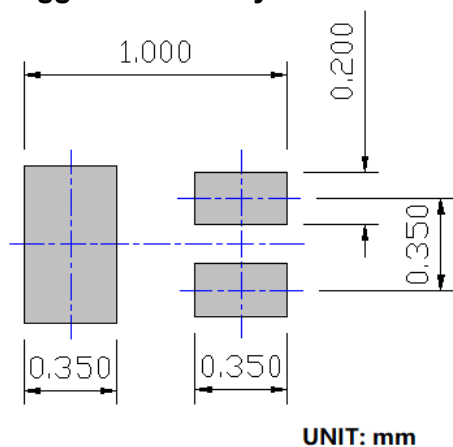


■ Outline Dimensions



DIMENSIONS			
SYMBOL	Millimeter		
	MIN.	NOM.	MAX.
A	0.42	---	0.55
A1	0.025REF		
b	0.45	0.50	0.55
b1	0.10	0.15	0.20
D	0.95	1.00	1.05
E	0.55	0.60	0.65
E1	0.35BSC		
e	0.65BSC		
L	0.20	0.25	0.30

■ Suggested Pad Layout





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