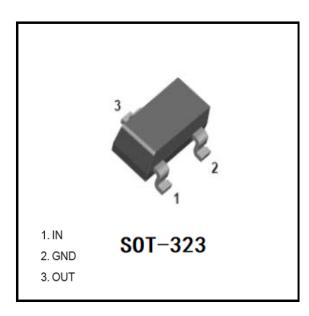




Digital Transistors (Built-in Resistors)



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

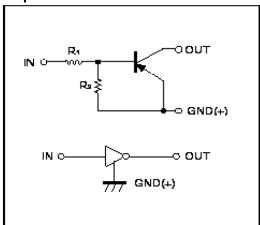
• Package: SOT-323

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Marking: 33

■Equivalent circuit



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	VCC	V		-50
Input Voltage	VIN	V		-20 to +7
Output Current	Ю	mA		-100
Power Dissipation	PD	mW		200
Junction Temperature	Tj	°C		150
Storage Temperature	TSTG	°C		-55 to +150



DTA143XUA

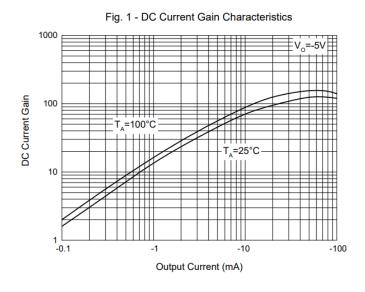
■Electrical Characteristics (Ta=25°C unless otherwise specified)

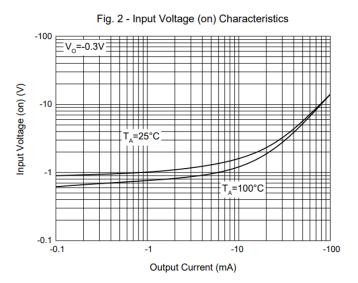
ITEM	SYMBOL	UNIT			TYP	MAX
Input voltage	VI _(off)	V	VCC=-5V,Ic=-100uA	-0.3		
	VI _(on)	V	Vo=-0.3V,Ic=-20mA			-2.5
Output voltage	Vo _(on)	V	lo /li =-10mA/-0.5 mA			-0.3
Input current	П	mA	VI=-5V			-1.8
Output current	I _{O(off)}	uA	VCC=-50V, Vi=0			-0.5
DC current gain	GI		Vo=-5V, lo =-10mA	30		
Input resistance	R ₁	kΩ		3.29	4.7	6.11
Resistance ratio	R ₂ /R ₁			1.7	2.1	2.6
Transition frequency	fT	MHz	VCE=-10V,IE=5mA,f=100MHz		250	

■ Ordering Information (Example)

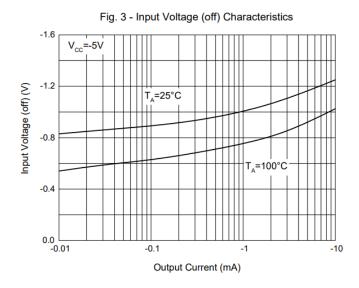
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DTA143XUA	F2	Approximate 0.009	3000	30000	120000	7" reel

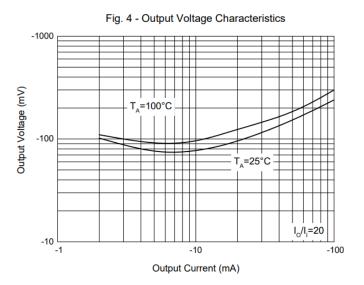
■ Characteristics (Typical)



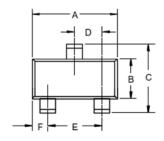


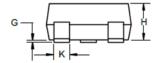






■SOT-323 Package Outline Dimensions

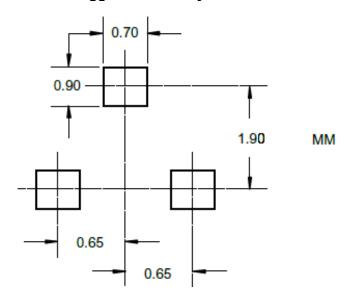






DIM	INC	HES	M	NOTE	
	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026Nominal		0.65Nominal		
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.039	0.90	1.00	
J	0.004	0.010	0.10	0.250	
K	0.006	0.016	0.15	0.40	

■SOT-323Suggested Pad Layout





DTA143XUA

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