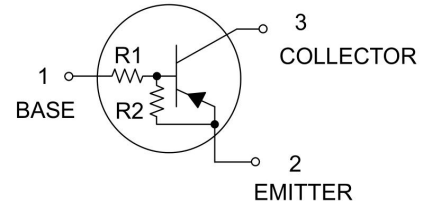
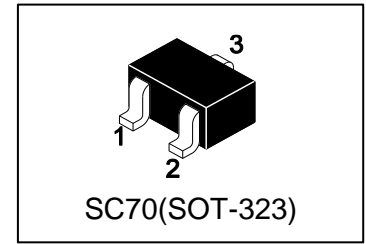


LDTA143XWT1G

Bias Resistor Transistor
PNP Silicon Surface Mount Transistor
with Monolithic Bias Resistor Network



1. FEATURES

- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors(see equivalent circuit)
- The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input. They also have the advantage of almost completely eliminating parasitic effects.
- We declare that the material of product compliance with RoHS requirements and Halogen Free.

2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	R1(K)	R2(K)	Shipping
LDTA143XWT1G	Q3	4.7	10	3000/Tape&Reel

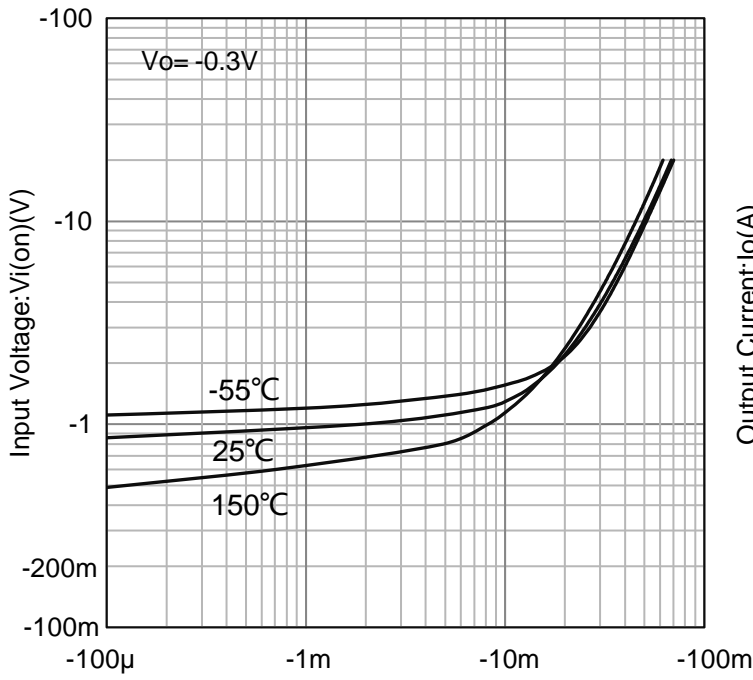
3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	VCC	-50	V
Input voltage	VI	-20~+7	V
Output current	IO	-100	mA
	ICM	-100	
Power dissipation	PD	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	°C

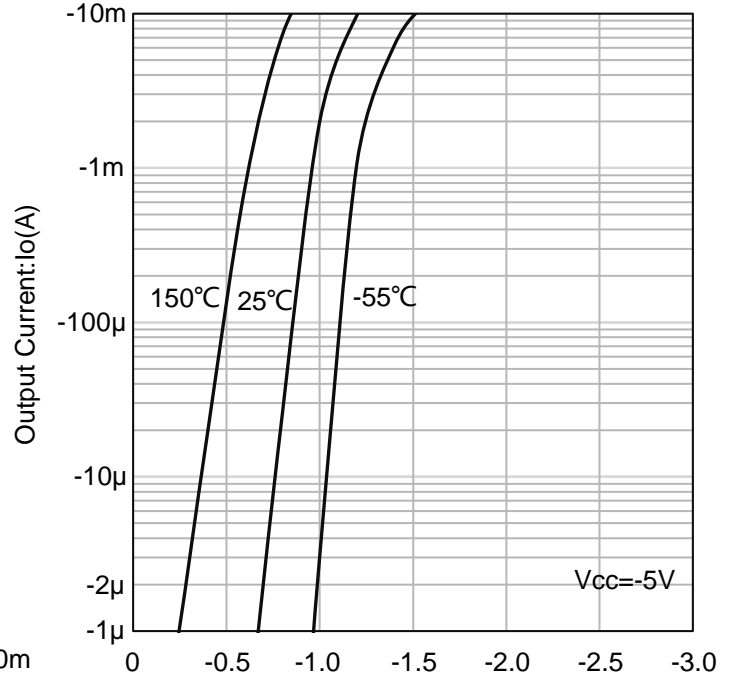
4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Input voltage (Vcc=-5V, Io=-100μA)	VI(off)	-	-	-0.3	V
Input voltage (Vo=-0.3V, Io=-20mA)	VI(on)	-2.5	-	-	V
Output voltage (Io/Ii=-10mA/-0.5mA)	Vo(on)	-	-0.1	-0.3	V
Input Current (Vi=-5V)	Ii	-	-	-1.8	mA
Output Current (Vcc=-50V, Vi=0V)	Io(off)	-	-	-0.5	μA
DC Current Gain (Vo=-5V, Io=-10mA)	Gi	30	-	-	
Input resistance	R1	3.29	4.7	6.11	KΩ
Resistance ratio	R2/R1	1.7	2.1	2.6	
Transition frequency (VCE=-10V, IE=5mA, f=100MHz)	fT	-	250	-	MHz

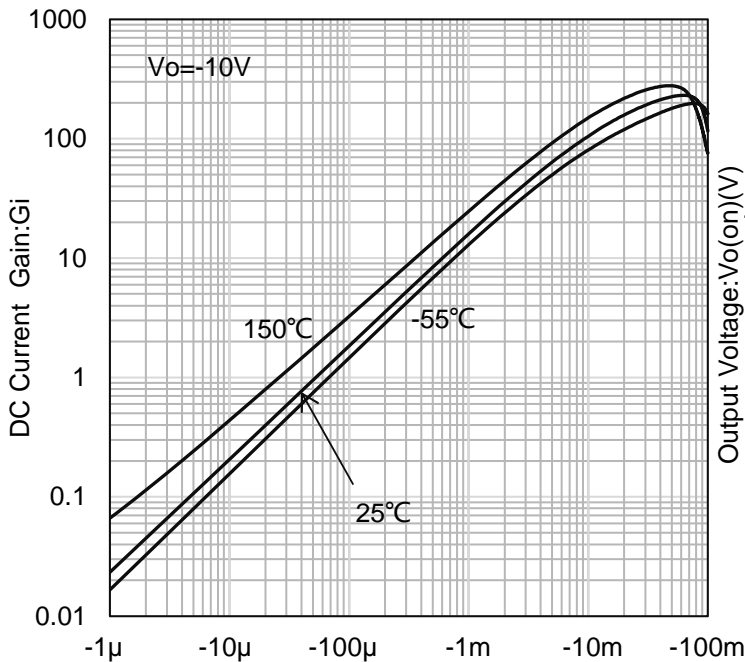
5.ELECTRICAL CHARACTERISTICS CURVES



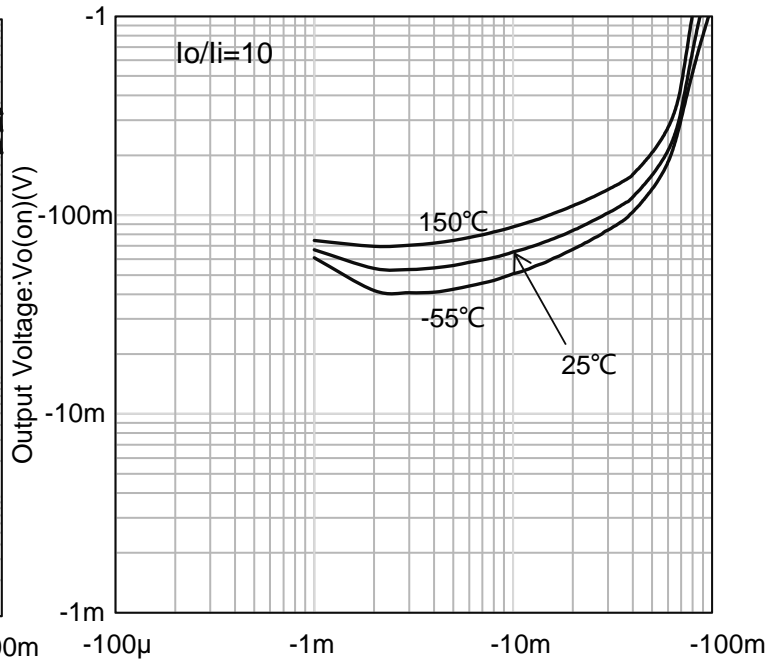
Input voltage vs. output current
(ON characteristics)



Output current vs. input voltage
(OFF characteristics)

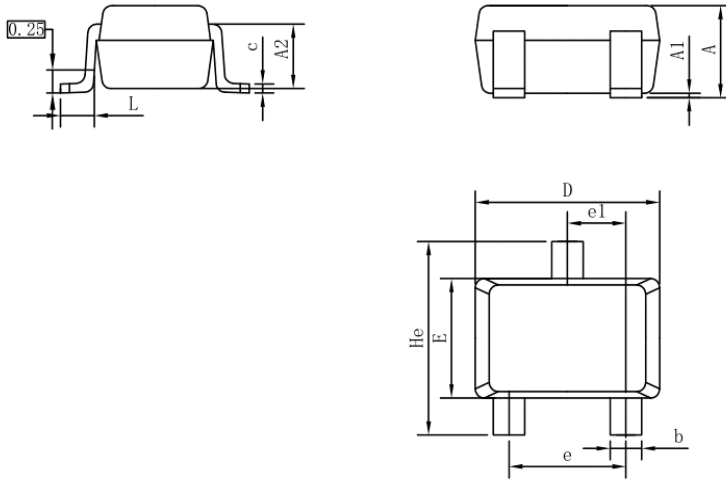


DC current gain vs. output current



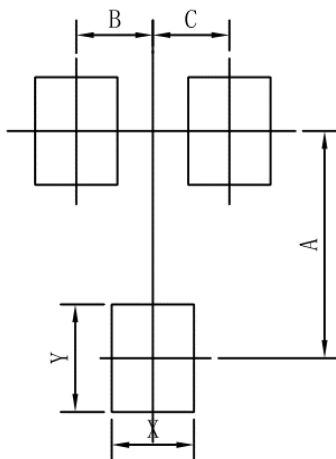
Output voltage vs. output current

6. OUTLINE AND DIMENSIONS



SC70			
DIM	MIN	NOR	MAX
A	0.80	0.95	1.00
A1	0.00	0.05	0.10
A2	0.7 REF		
b	0.30	0.35	0.40
c	0.10	0.15	0.25
D	1.80	2.05	2.20
E	1.15	1.30	1.35
e	1.20	1.30	1.40
e1	0.65 BSC		
L	0.20	0.35	0.56
He	2.00	2.10	2.40
ALL Dimension in mm			

7. SOLDERING FOOTPRINT



SC70	
DIM	MIN
A	1.90
B	0.65
C	0.65
X	0.70
Y	0.90

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