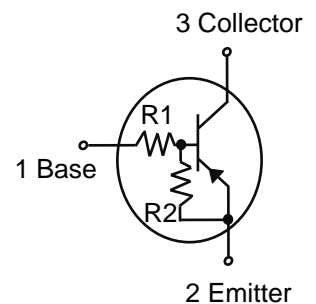
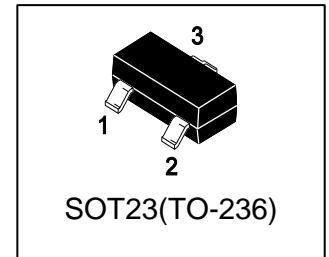


LDTA143XLT1G

S-LDTA143XLT1G

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



1. FEATURES

- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors.
- 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.
- Only the on/off conditions need to be set for operation, making the device design easy.
- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.

2. Applications

- Inverter ,Interface, Driver.

3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	R1(K)	R2(K)	Shipping
LDTA143XLT1G	L3	4.7	10	3000/Tape&Reel
LDTA143XLT3G	L3	4.7	10	10000/Tape&Reel

4. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector–Emitter Voltage	V _{CEO}	-50	V
Collector–Base Voltage	V _{CBO}	-50	V
Collector Current	I _C	-100	mA
Input Voltage	V _{IN}	-20~+7	V

5. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	225 1.8	mW mW/°C
Thermal Resistance, Junction–to–Ambient(Note 1)	RθJA	556	°C/W
Junction and Storage temperature	T _J , T _{stg}	-55~+150	°C

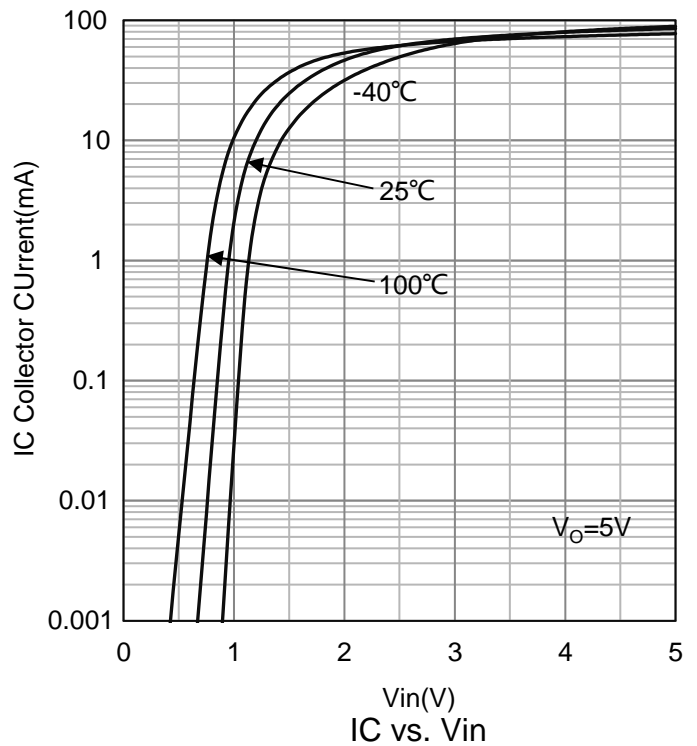
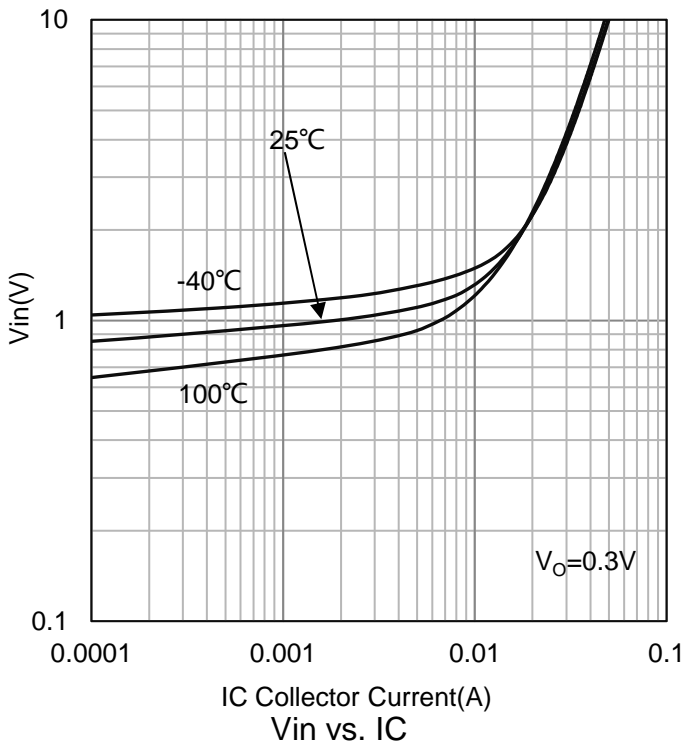
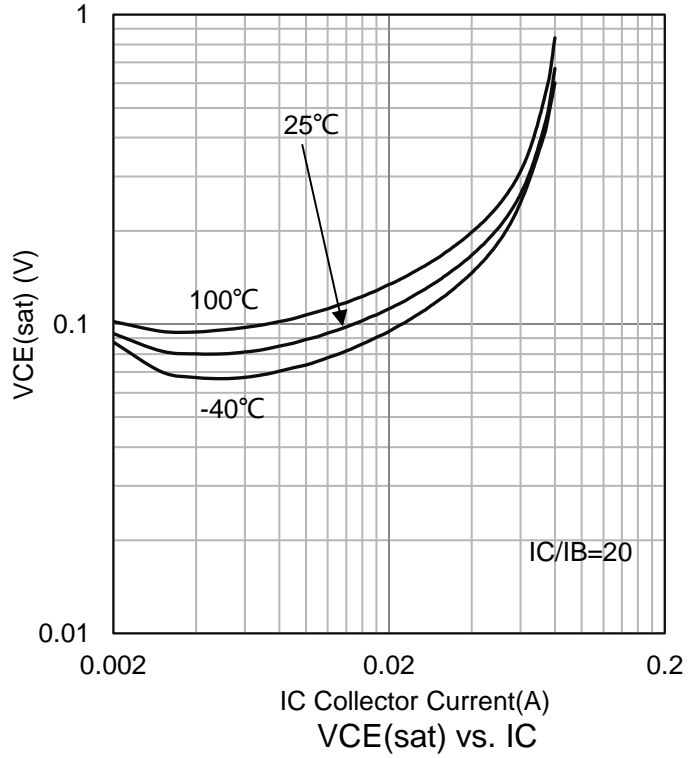
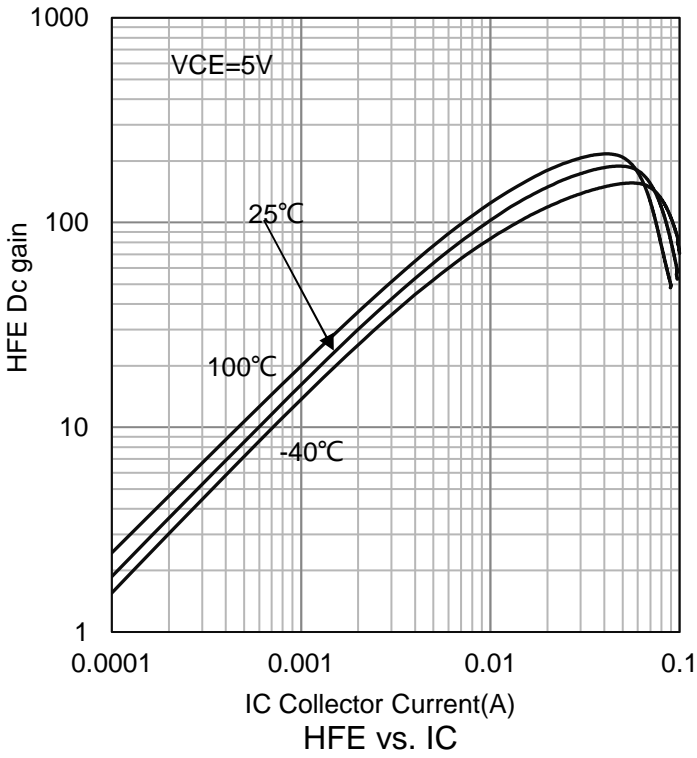
1. FR-5 = 1.0×0.75×0.062 in.

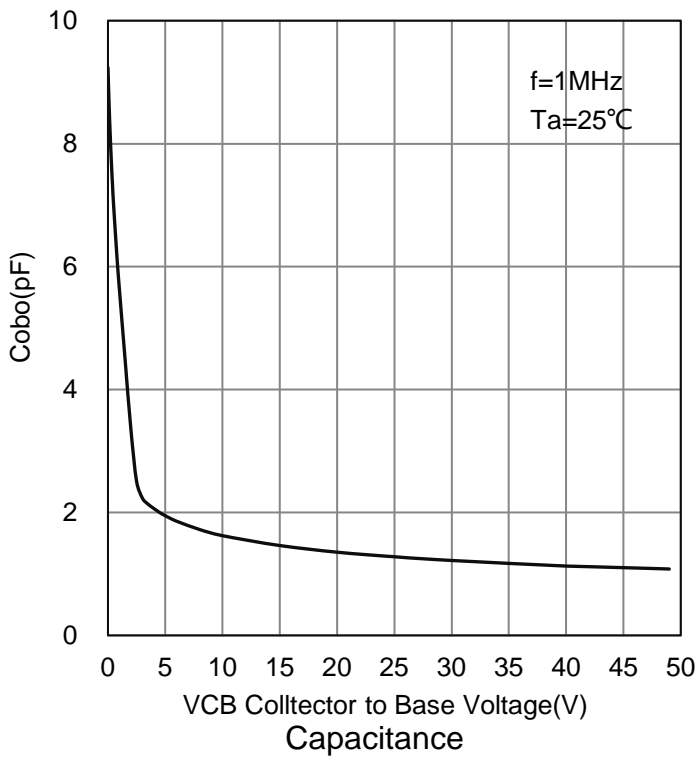
6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Collector–Emitter Breakdown Voltage (IC = -2.0 mA, IB = 0)	VBR(CEO)	-50	-	-	V
Collector–Base Breakdown Voltage (IC = -10 μA, IE = 0)	VBR(CBO)	-50	-	-	V
Collector-Base Cutoff Current (VCB = -50 V, IE = 0)	ICBO	-	-	-100	nA
Emitter-Base Cutoff Current (VEB = -6.0 V, IC = 0)	IEBO	-	-	-1	mA
Collector-Emitter Cutoff Current (VCE = -50 V, IB = 0)	ICEO	-	-	-500	nA
DC Current Gain (IC = -10 mA, VCE = -5 V)	HFE	30	-	-	
Collector–Emitter Saturation Voltage (IC = -10 mA, IB = -0.3 mA)	VCE(sat)	-	-	-0.25	V
Input Voltage (off) (VCE = -5.0 V, IC = -100 μA)	Vi(off)	-	-	-0.3	V
Input Voltage (on) (VCE = -0.3 V, IC = -20 mA)	Vi(on)	-2.5	-	-	V
Output Voltage (on) (VCC = -5.0 V, VB = -5.5 V, RL =1.0KΩ)	VOL	-	-	-0.2	V
Output Voltage (off) (VCC = -5.0 V, VB = -0.25 V, RL =1.0KΩ)	VOH	-4.9	-	-	V
Input Resistor	R1	3.29	4.7	6.11	KΩ
Resistor Ratio	R2/R1	1.7	2.1	2.6	

3. Pulse Test: Pulse Width < 300 μs, Duty Cycle < 2.0%

7.ELECTRICAL CHARACTERISTICS CURVES

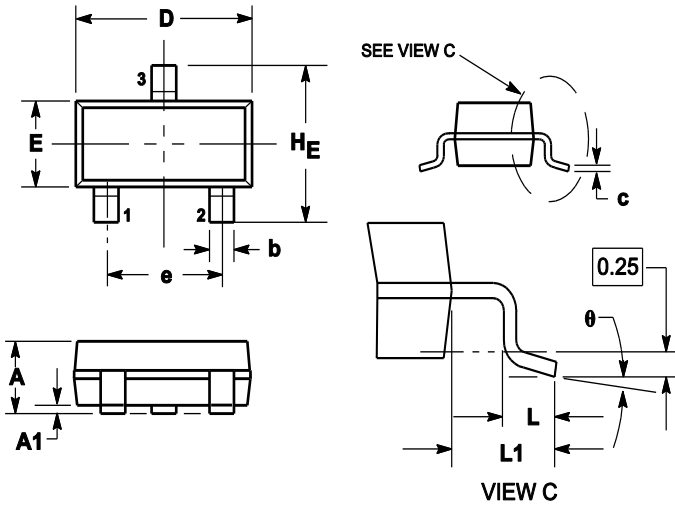


7.ELECTRICAL CHARACTERISTICS CURVES(Con.)

8. OUTLINE AND DIMENSIONS

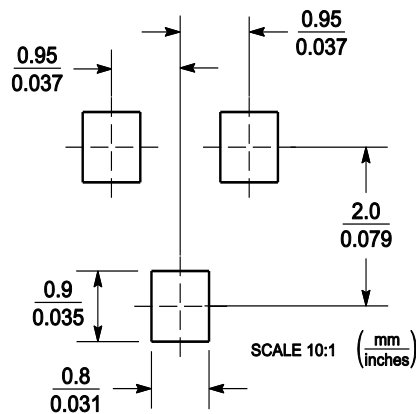
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1	1.11	0.035	0.04	0.044
A1	0.01	0.06	0.1	0.001	0.002	0.004
b	0.37	0.44	0.5	0.015	0.018	0.02
c	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.9	3.04	0.11	0.114	0.12
E	1.20	1.3	1.4	0.047	0.051	0.055
e	1.78	1.9	2.04	0.07	0.075	0.081
L	0.10	0.2	0.3	0.004	0.008	0.012
L1	0.35	0.54	0.69	0.014	0.021	0.029
H _E	2.10	2.4	2.64	0.083	0.094	0.104
θ	0°	---	10°	0°	---	10°

9. SOLDERING FOOTPRINT



DISCLAIMER

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单击下面可查看定价，库存，交付和生命周期等信息

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