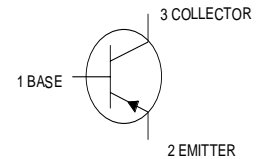
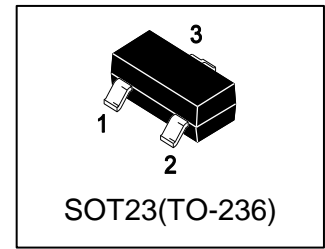


LMBTA56LT1G

S-LMBTA56LT1G

Driver Transistors PNP Silicon



1. FEATURES

- 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. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LMBTA56LT1G	2GM	3000/Tape&Reel
LMBTA56LT3G	2GM	10000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector–Emitter Voltage	V _{CEO}	-80	V
Collector–Base Voltage	V _{CBO}	-80	V
Emitter–Base Voltage	V _{EBO}	-4	V
Collector Current — Continuous	I _C	-500	mA

4. 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)	R _{θJA}	556	°C/W
Junction and Storage temperature	T _J , T _{stg}	-55~+150	°C

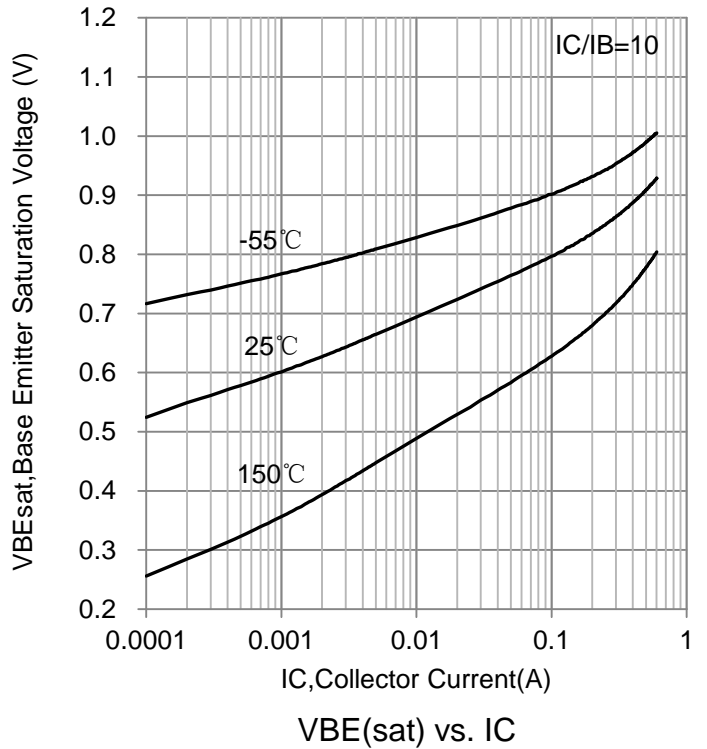
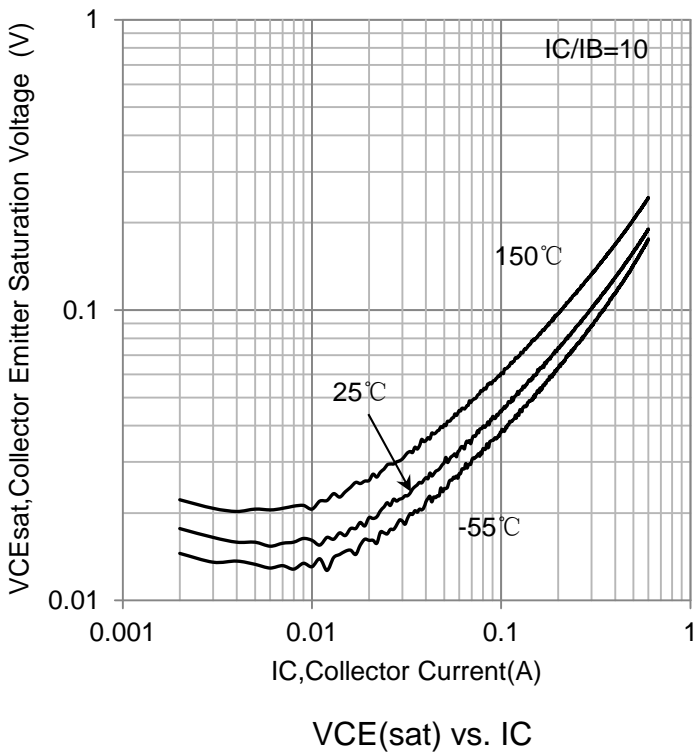
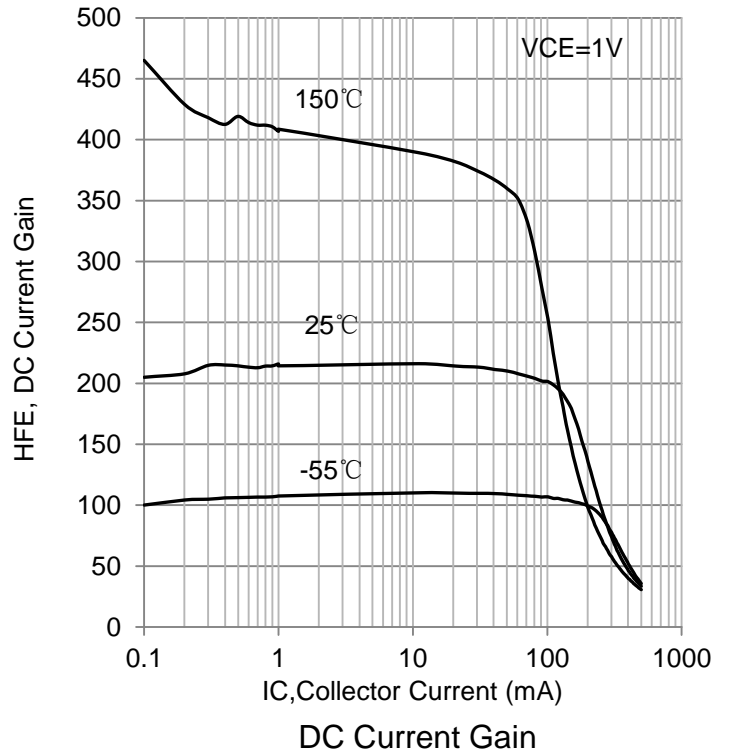
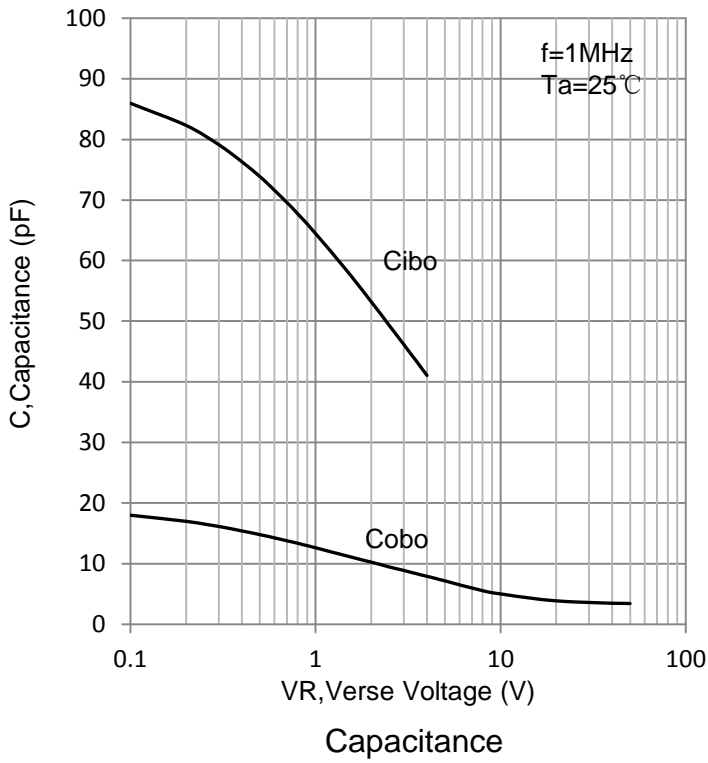
1. FR-5 = 1.0×0.75×0.062 in.

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

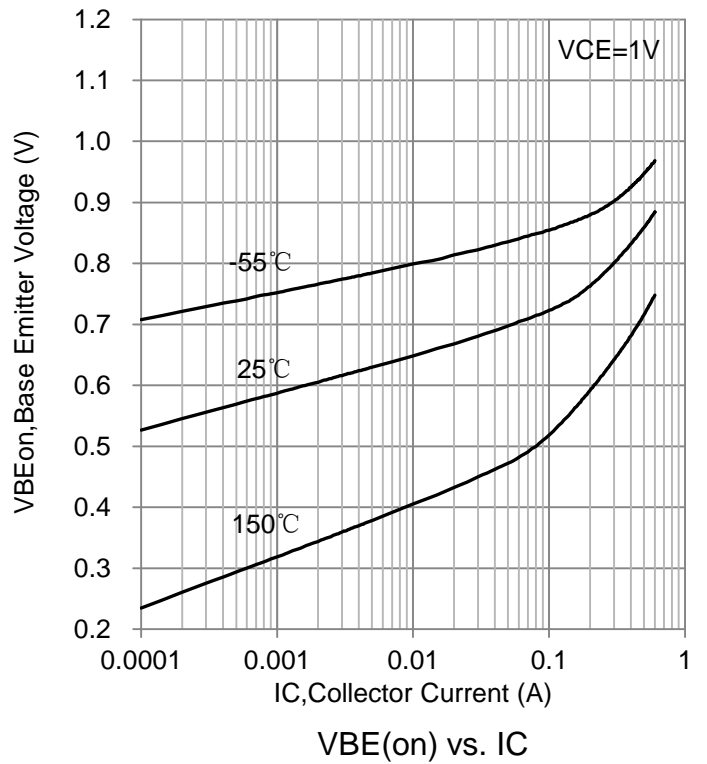
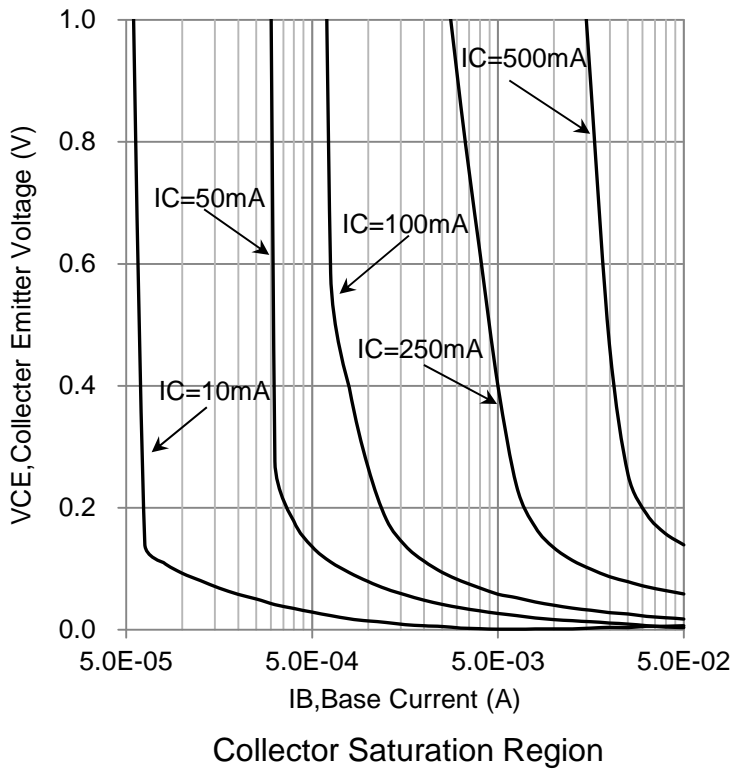
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Collector–Emitter Breakdown Voltage(Note 2) (IC = -1 mA, IB = 0)	VBR(CEO)	-80	-	-	V
Emitter–Base Breakdown Voltage (IE = -100 μA, IC = 0)	VBR(EBO)	-4	-	-	V
Collector–Base Breakdown Voltage (IC= -100μA, IE= 0)	VBR(CBO)	-80	-	-	V
Collector Cutoff Current (VCE = - 60 V, IE = 0)	ICES	-	-	-0.1	μA
Collector Cutoff Current (VCB = - 80 V, IE = 0)	ICBO	-	-	-100	nA
Emitter-Base cut-off current (IC = 0, VEB = -6V)	IEBO	-	-	-100	nA
Collector-Emitter cutoff Current (VCE = -80V, IB=0)	ICEO	-	-	-10	μA
DC Current Gain (IC = -10 mA, VCE = -1 V) (IC = -100 mA, VCE = -1 V)	HFE	100 100	- -	- 300	
Collector–Emitter Saturation Voltage (IC = -100 mA, IB = -10 mA)	VCE(sat)	-	-	-0.25	V
Base-Emitter turn on voltage (IC = -100 mA, VCE = -1 V)	VBE(on)	-	-	-1.2	V
Current–Gain — Bandwidth Product (IC = -100mA, VCE= -1V, f = 100MHz)	fT	50	-	-	MHz
Output Capacitance (VCB=-10V,IE=0,f=1MHz)	Cobo	-	5.3	-	pF
Input Capacitance (VEB=-0.5V,IC=0,f=1MHz)	Cibo	-	78	-	pF

 2.Pulse Test: Pulse Width $\leq 300 \mu\text{s}$, Duty Cycle $\leq 2.0\%$.

6. ELECTRICAL CHARACTERISTICS CURVES



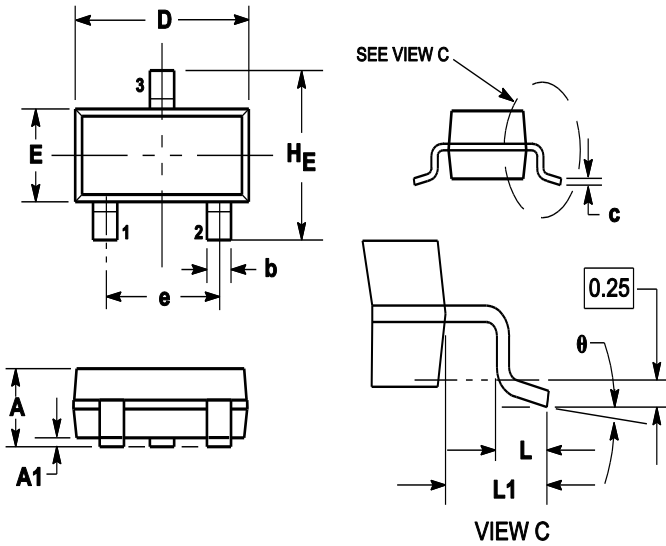
6. ELECTRICAL CHARACTERISTICS CURVES(Con.)



7. OUTLINE AND DIMENSIONS

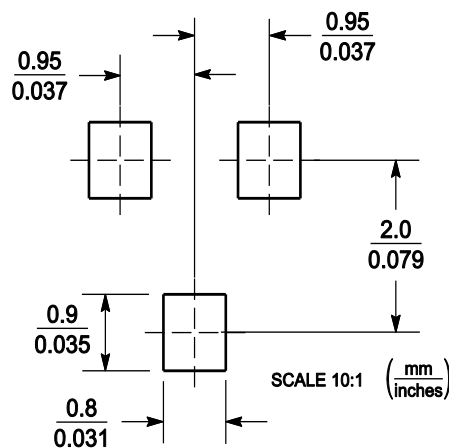
Notes:

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
HE	2.10	2.4	2.64	0.083	0.094	0.104
θ	0°	---	10°	0°	---	10°

8. SOLDERING FOOTPRINT



DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.

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