

# LMBTA94LT1G

PNP EPITAXIAL PLANAR TRANSISTOR

We declare that the material of product compliance with RoHS requirements.

## Description

The LMBTA94LT1G is designed for application that requires high voltage.

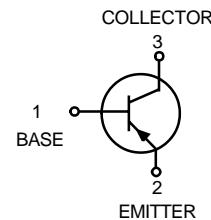
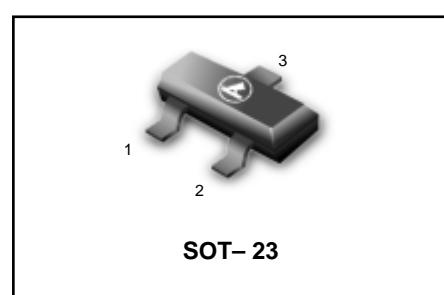
## Features

- High Breakdown Voltage: VCEO=400(Min.) at IC=1mA
- Complementary to LMBTA94LT1G

## DEVICE MARKING

LMBTA94LT1G = 4Z

# LMBTA94LT1G



## Absolute Maximum Ratings

- Maximum Temperatures
 

Storage Temperature .....	-55 ~ +150 °C
Junction Temperature .....	+150 °C Maximum
- Maximum Power Dissipation
 

Total Power Dissipation (Ta=25°C) .....	350 mW
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- Maximum Voltages and Currents (Ta=25°C)
 

VCBO Collector to Base Voltage .....	-400 V
VCEO Collector to Emitter Voltage .....	-400 V
VEBO Emitter to Base Voltage .....	-6 V
IC Collector Current .....	-150 mA

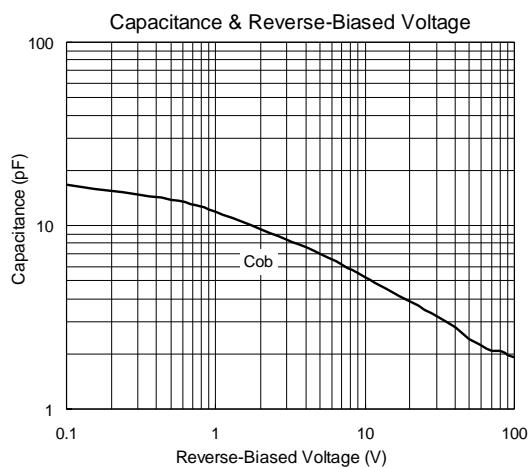
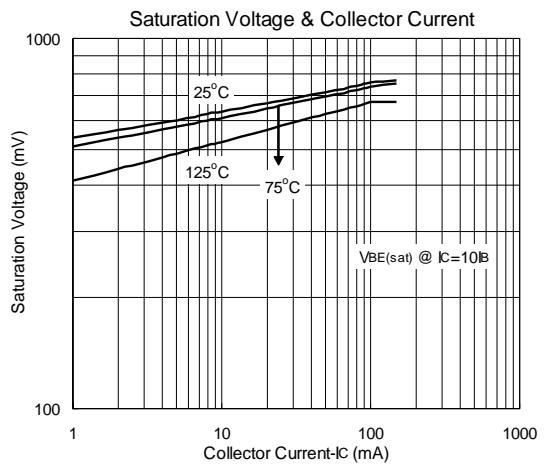
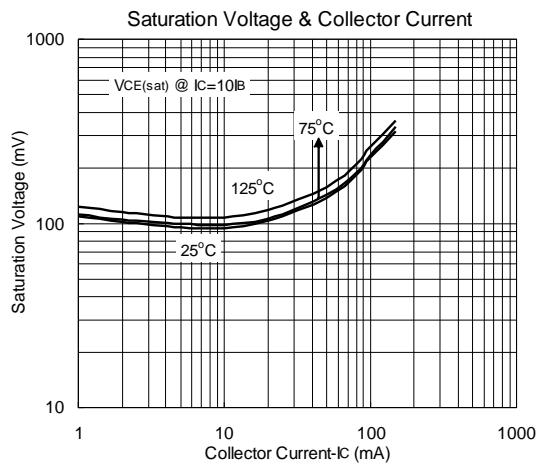
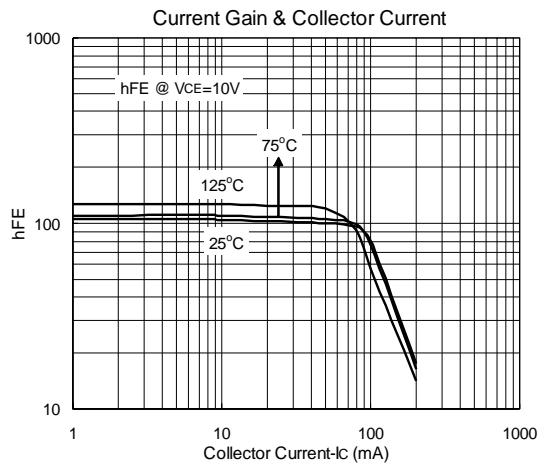
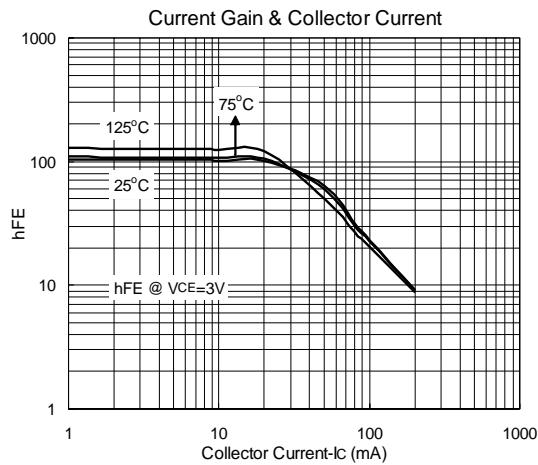
## Characteristics (Ta=25 C)

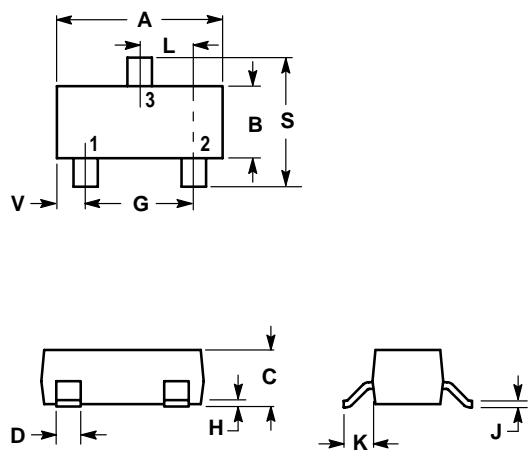
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-400	-	-	V	IC=-100uA, IE=0
BVCEO	-400	-	-	V	IC=-1mA, IB=0
BVEBO	-6	-	-	V	IE=-10uA, IC=0
ICBO	-	-	-100	nA	VCB=-400V, IE=0
IEBO	-	-	-100	nA	VEB=-6V, IC=0
ICES	-	-	-500	nA	VCE=-400V, VBE=0
*VCE(sat)1	-	-	-200	mV	IC=-1mA, IB=-0.1mA
*VCE(sat)2	-	-	-300	mV	IC=-10mA, IB=-1mA
*VCE(sat)3	-	-	-600	mV	IC=-50mA, IB=-5mA
*VBE(sat)	-	-	-900	mV	IC=-10mA, IB=-1mA
*hFE1	50	-	-		VCE=-10V, IC=-1mA
*hFE2	75	-	200		VCE=-10V, IC=-10mA
*hFE3	60	-	-		VCE=-10V, IC=-50mA
*hFE4	20	-	-		VCE=-10V, IC=-100mA
Cob	-	4	6	pF	VCE=-10V, f=1MHz

\*Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%

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## Characteristics Curve



**LMBTA94LT1G**
**SOT-23**

**NOTES:**

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982
2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
<b>A</b>	0.1102	0.1197	2.80	3.04
<b>B</b>	0.0472	0.0551	1.20	1.40
<b>C</b>	0.0350	0.0440	0.89	1.11
<b>D</b>	0.0150	0.0200	0.37	0.50
<b>G</b>	0.0701	0.0807	1.78	2.04
<b>H</b>	0.0005	0.0040	0.013	0.100
<b>J</b>	0.0034	0.0070	0.085	0.177
<b>K</b>	0.0140	0.0285	0.35	0.69
<b>L</b>	0.0350	0.0401	0.89	1.02
<b>S</b>	0.0830	0.1039	2.10	2.64
<b>V</b>	0.0177	0.0236	0.45	0.60

PIN 1. BASE  
2. Emitter  
3. Collector

