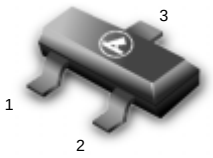
LMBTA94LT1G

LMBTA94LT1G

PNP EPITAXIAL PLANAR TRANSISTOR



SOT– 23

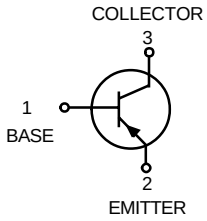
We declare that the material of product compliance with RoHS requirements.

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

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
- 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

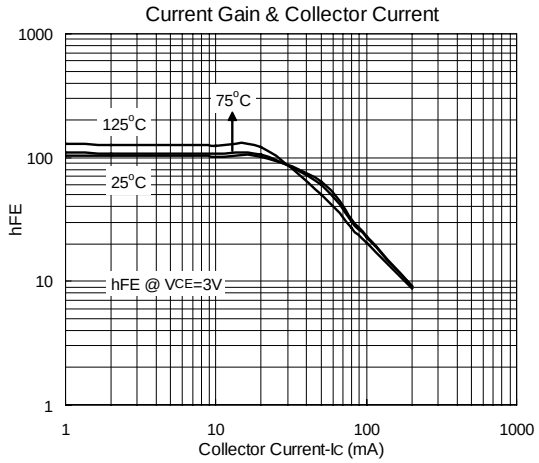
Characteristics (Ta=25 C)

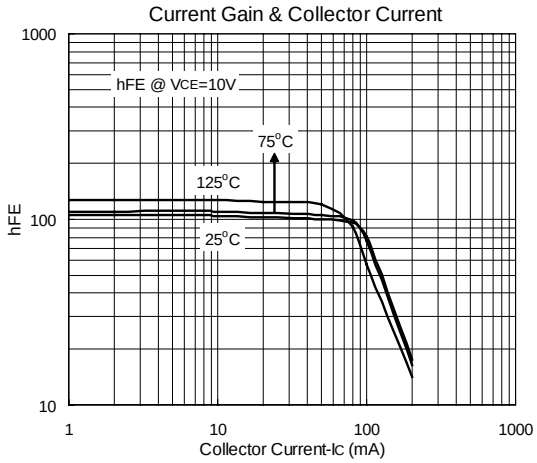
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-400	-	-	V	IC=-100uA, IE=0
BVCEO	-400	-	-	V	IC=-1mA, IB=0
BVEBO	-6	-	-	V	IE=-10uA, IC=0
ICBO	-	-	-100	nA	VCB=-400V, IE=0
IEBO	-	-	-100	nA	VEB=-6V, IC=0
ICES	-	-	-500	nA	VCE=-400V, VBE=0
*VCE(sat)1	-	-	-200	mV	IC=-1mA, IB=-0.1mA
*VCE(sat)2	-	-	-300	mV	IC=-10mA, 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

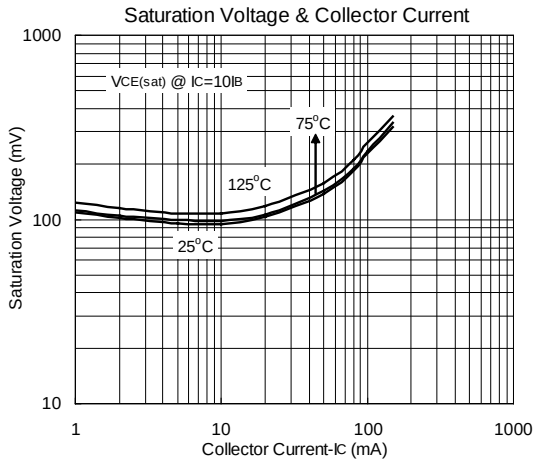
*Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%

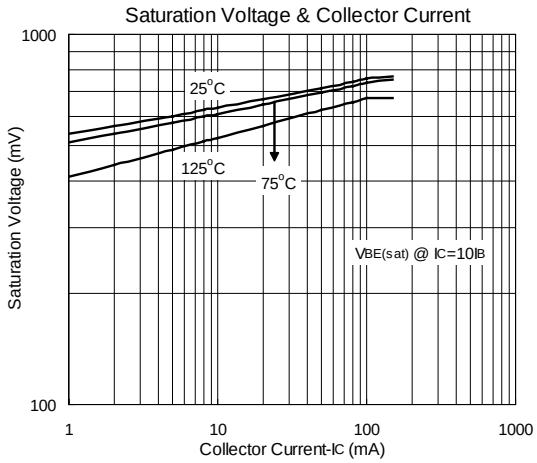
LMBTA94LT1G

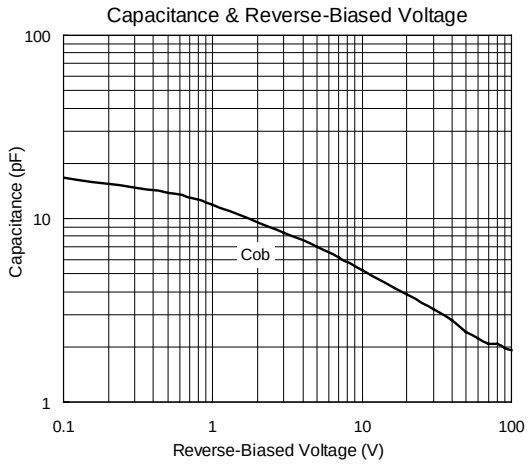
Characteristics Curve





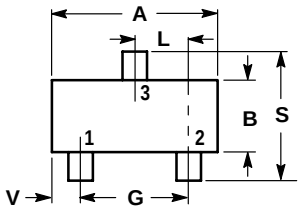


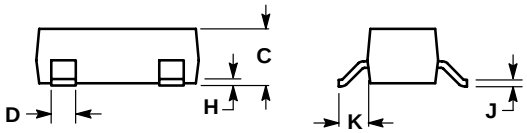




LMBTA94LT1G

SOT−23





NOTES:

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

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

PIN 1. BASE
2. EMITTER
3. COLLECTOR