

LMBTA44LT1G

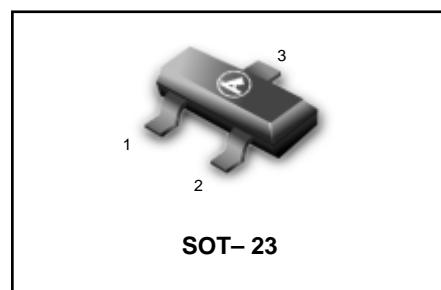
NPN EPITAXIAL PLANAR TRANSISTOR

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

Description

The LMBTA44LT1G is designed for application
that requires high voltage.

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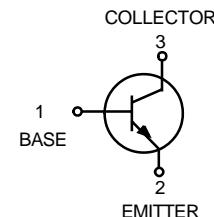


Features

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

DEVICE MARKING

LMBTA44LT1G = 3D



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)

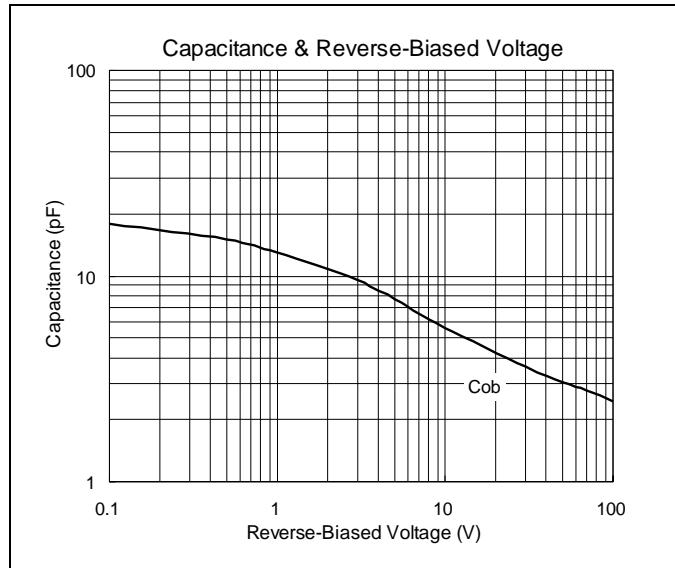
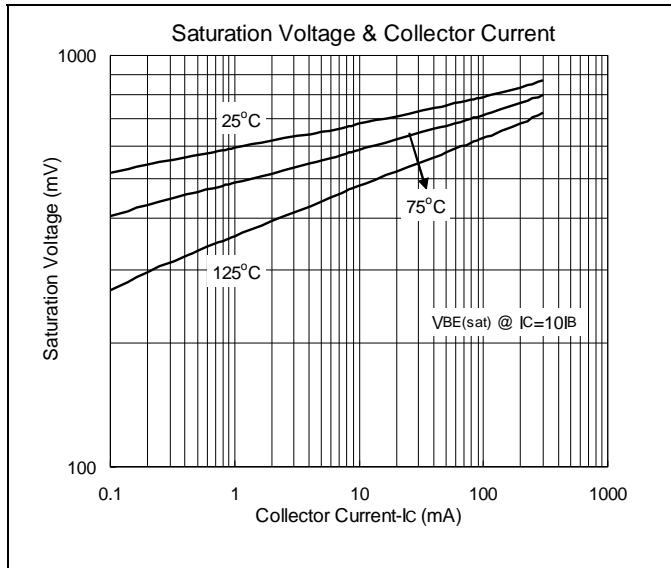
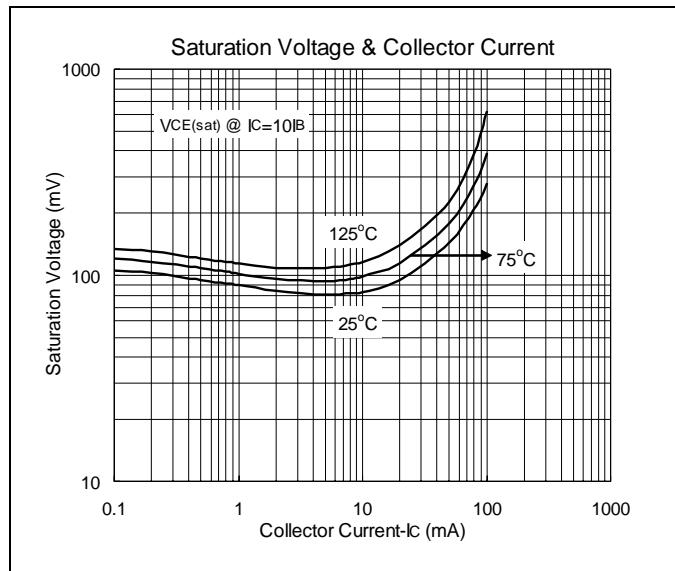
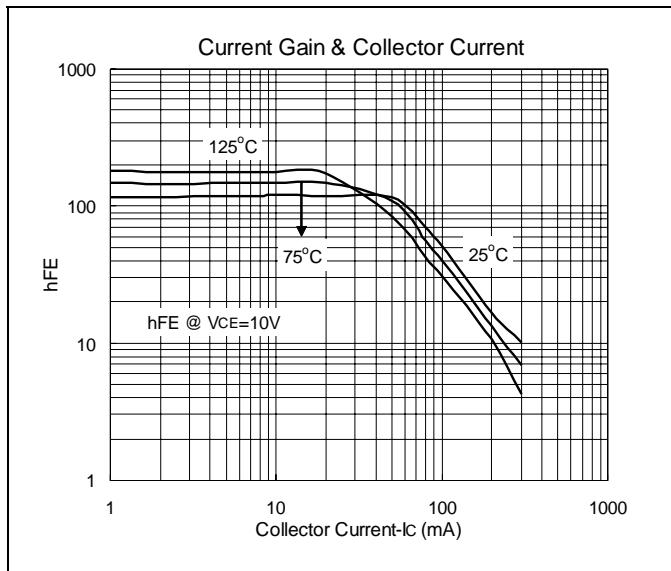
VCBO Collector to Base Voltage	400 V
VCEO Collector to Emitter Voltage	400 V
VEBO Emitter to Base Voltage	5 V
IC Collector Current	200 mA

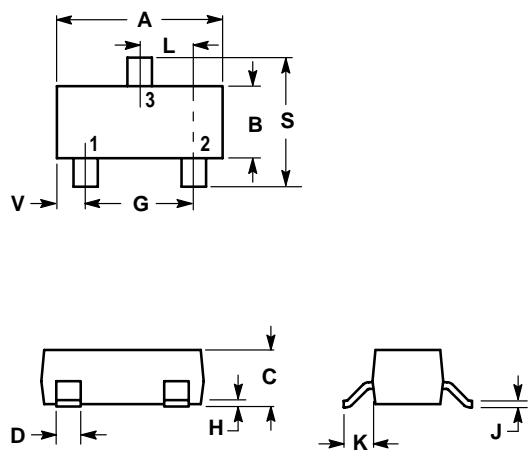
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR) _{CBO}	I _C = 100µA, I _E =0	400			V
Collector-emitter breakdown voltage	V(BR) _{CEO}	I _C = 1mA , I _B =0	400			V
Emitter-base breakdown voltage	V(BR) _{EBO}	I _E =100µA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =400V, I _E =0			0.1	µA
Collector cut-off current	I _{CEO}	V _{CE} =350V			5	µA
Emitter cut-off current	I _{EBO}	V _{EB} = 4V, I _C =0			0.1	µA
DC current gain	H _{FE(1)}	V _{CE} =10V, I _C =10 mA	80		300	
	H _{FE(2)}	V _{CE} =10V, I _C =1mA	50			
	H _{FE(3)}	V _{CE} =10V, I _C =50 mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10 mA, I _B =1mA			0.2	V
	V _{CE(sat)}	I _C =50 mA, I _B =5mA			0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =10 mA, I _B = 1 mA			0.9	V
Transition frequency	f _T	V _{CE} =10V, I _C =20mA	50			MHz

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Characteristics Curve



LMBTA44LT1G
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

