

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.

Features

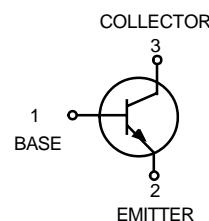
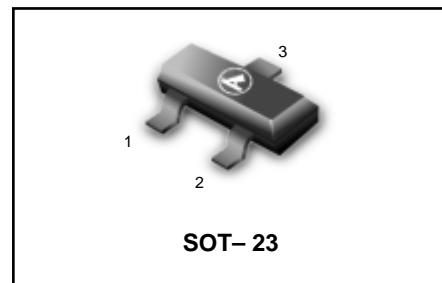
- High Breakdown Voltage: V_{CEO}=400(Min.) at I_C=1mA
- Complementary to LMBTA94LT1G
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

DEVICE MARKING

| | |
|------------------|--------------------|
| LMBTA44LT1G = 3D | S-LMBTA44LT1G = 3D |
|------------------|--------------------|

LMBTA44LT1G

S-LMBTA44LT1G



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)

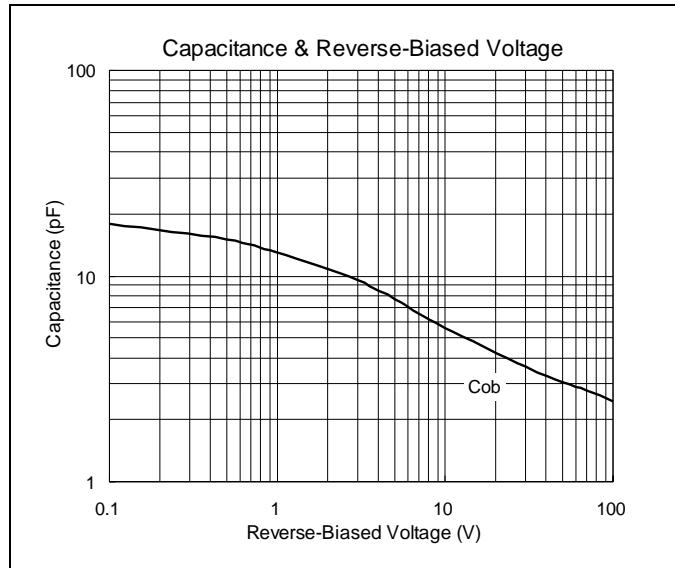
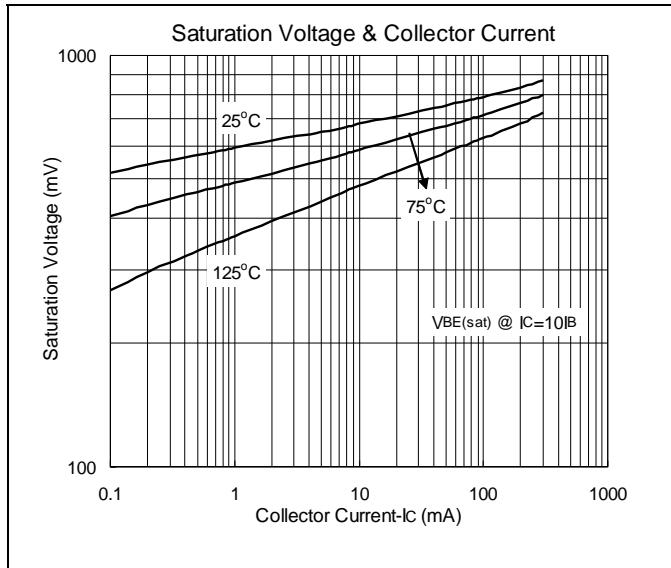
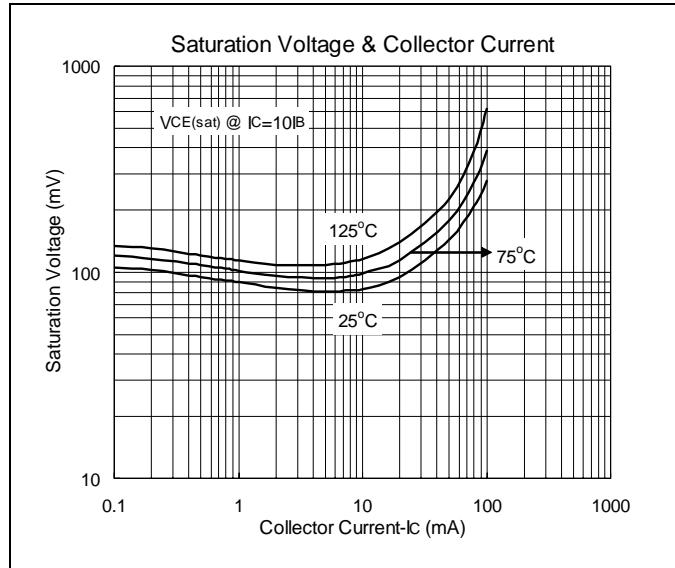
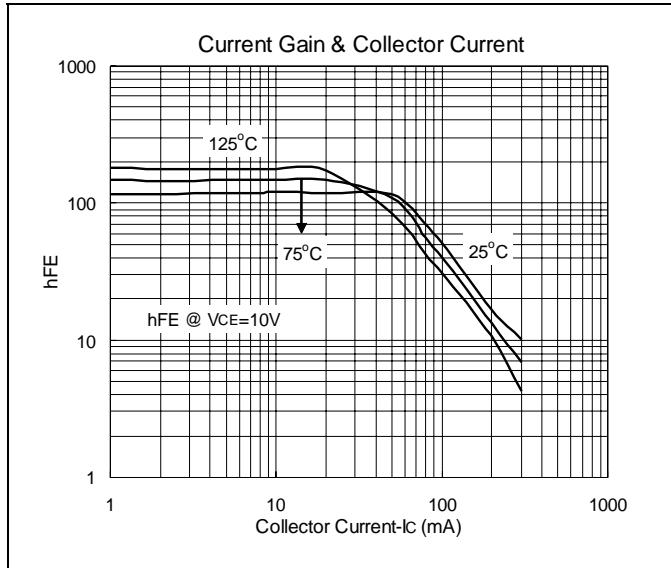
| | |
|---|--------|
| VCBO Collector to Base Voltage | 400 V |
| VCEO Collector to Emitter Voltage | 400 V |
| VEBO Emitter to Base Voltage | 5 V |
| IC Collector Current | 200 mA |

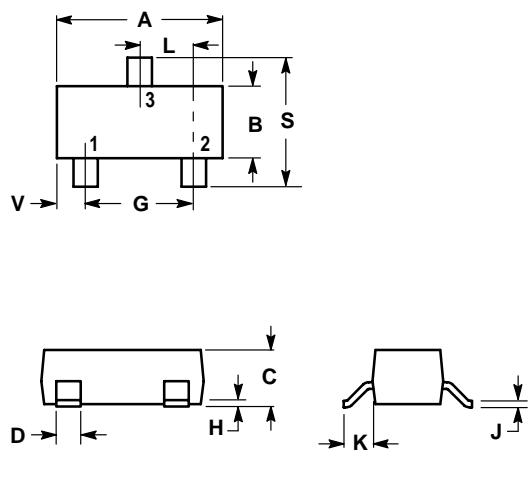
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

| 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

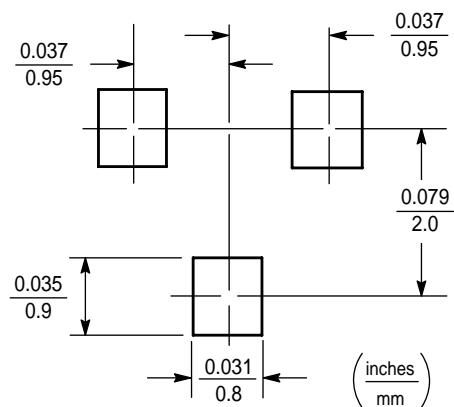


LMBTA44LT1G , S-LMBTA44LT1G
SOT-23

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



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