

General Purpose Transistors

PNP Silicon

FEATURE

We declare that the material of product compliance with RoHS requirements.
 S- Prefix for Automotive and Other Applications Requiring Unique Site
 and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

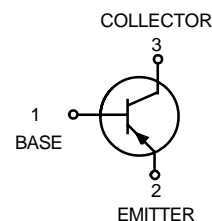
L8550PLT1G
 Series
 S-L8550PLT1G
 Series



SOT-23

DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|------------|------------------|-----------------|
| L8550PLT1G | s-L8550PLT1G 85P | 3000/Tape&Reel |
| L8550PLT3G | s-L8550PLT3G 85P | 10000/Tape&Reel |
| L8550QLT1G | s-L8550QLT1G 1YD | 3000/Tape&Reel |
| L8550QLT3G | s-L8550QLT3G 1YD | 10000/Tape&Reel |
| L8550RLT1G | s-L8550RLT1G 1YF | 3000/Tape&Reel |
| L8550RLT3G | s-L8550RLT3G 1YF | 10000/Tape&Reel |
| L8550SLT1G | s-L8550SLT1G 1YH | 3000/Tape&Reel |
| L8550SLT3G | s-L8550SLT3G 1YH | 10000/Tape&Reel |



MAXIMUM RATINGS

| Rating | Symbol | Value | Unit |
|------------------------------|-----------|-------|------|
| Collector-Emitter Voltage | V_{CEO} | -25 | V |
| Collector-Base voltage | V_{CBO} | -40 | V |
| Emitter-base Voltage | V_{EBO} | -5 | V |
| Collector current-continuous | I_C | -800 | mAdc |

THERMAL CHARACTERISTICS

| Characteristic | Symbol | Max | Unit |
|---|-----------------|-------------|-------|
| Total Device Dissipation FR-5 Board (1) $T_A = 25\text{ }^\circ\text{C}$ | P_D | 225 | mW |
| Derate above 25 °C | | 1.8 | mW/°C |
| Thermal Resistance, Junction to Ambient | $R_{\theta JA}$ | 556 | °C/W |
| Total Device Dissipation Alumina Substrate, (2) $T_A = 25\text{ }^\circ\text{C}$ | P_D | 300 | mW |
| Derate above 25 °C | | 2.4 | mW/°C |
| Thermal Resistance, Junction to Ambient | $R_{\theta JA}$ | 417 | °C/W |
| Junction and Storage Temperature | T_J, T_{stg} | -55 to +150 | °C |

1. FR-5 = 1.0 x 0.75 x 0.062 in.

2. Alumina = 0.4 x 0.3 x 0.024 in. 99.5% alumina.

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ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| Characteristic | Symbol | Min | Typ | Max | Unit |
|--|---------------|-----|-----|------|------|
| OFF CHARACTERISTICS | | | | | |
| Collector-Emitter Breakdown Voltage ($I_C = -1.0\text{mA}$) | $V_{(BR)CEO}$ | -25 | - | - | V |
| Emitter-Base Breakdown Voltage ($I_E = -100\mu\text{A}$) | $V_{(BR)EBO}$ | -5 | - | - | V |
| Collector-Base Breakdown voltage ($I_C = -100\mu\text{A}$) | $V_{(BR)CBO}$ | -40 | - | - | V |
| Collector Cutoff Current ($V_{CB} = -35\text{V}$) | I_{CBO} | - | - | -150 | nA |
| Emitter Cutoff Current ($V_{EB} = -4\text{V}$) | I_{EBO} | - | - | -150 | nA |

- FR-5 = 1.0 x 0.75 x 0.062 in.
- Alumina = 0.4 x 0.3 x 0.024 in. 99.5% alumina.

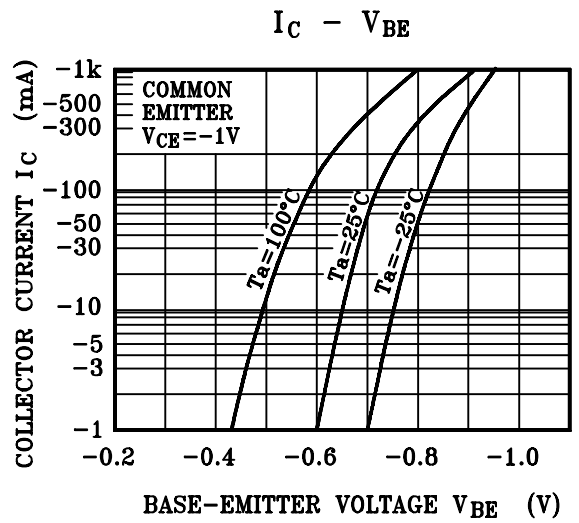
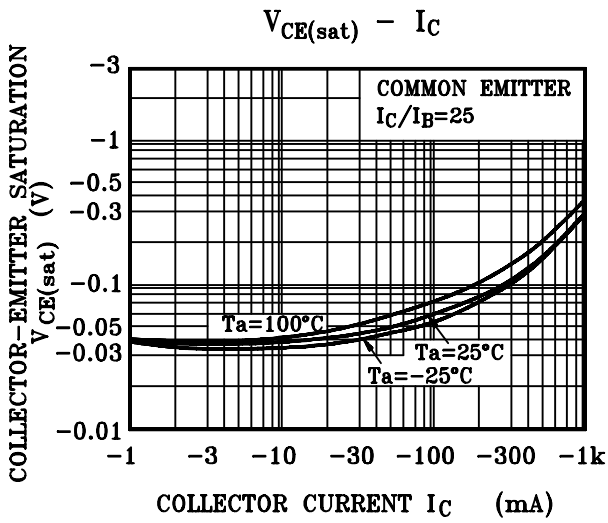
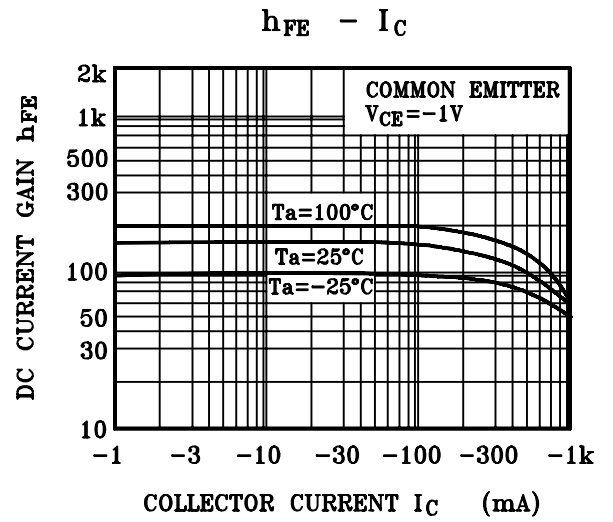
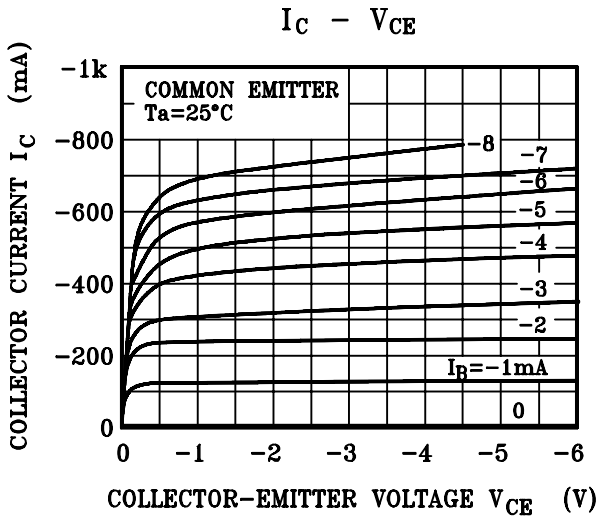
ON CHARACTERISTICS

| Characteristic | Symbol | Min | Typ | Max | Unit |
|--|-------------|-----|-----|------|------|
| DC Current Gain ($I_C = -100\text{mA}$, $V_{CE} = -1\text{V}$) | h_{FE} | 100 | - | 600 | |
| Collector-Emitter Saturation Voltage ($I_C = -800\text{mA}$, $I_B = -80\text{mA}$) | $V_{CE(S)}$ | - | - | -0.5 | V |

NOTE:

| * | P | Q | R | S |
|----------|---------|---------|---------|---------|
| h_{FE} | 100~200 | 150~300 | 200~400 | 300~600 |

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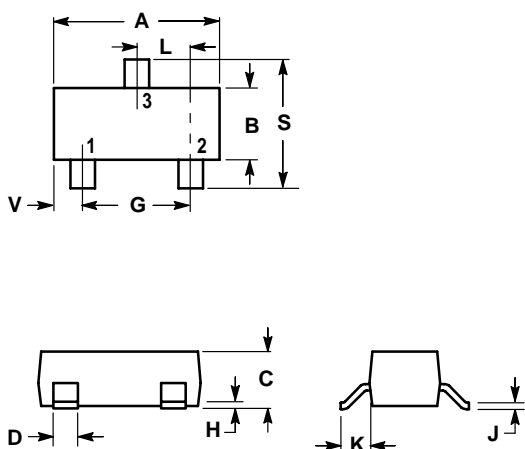


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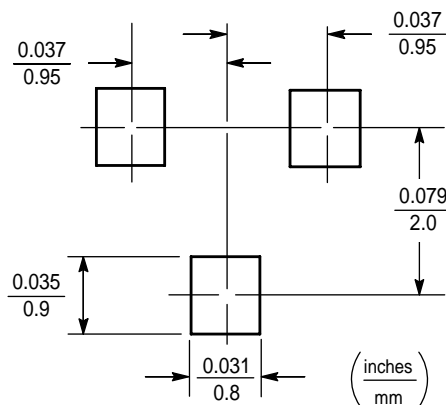
NOTES:

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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