

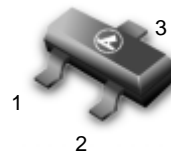
General Purpose Transistors

NPN Silicon

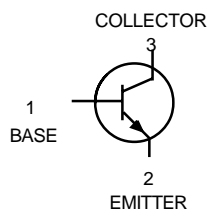
FEATURE

- High current capacity in compact package.
 $I_c = 0.8A$.
- Epitaxial planar type.
- NPN complement: L8050
- Pb-Free Package is available.
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

L8050PLT1G
Series
S-L8050PLT1G
Series



SOT-23



DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|------------|---------------|---------------------|
| L8050PLT1G | S-L8050PLT1G | 80P 3000/Tape&Reel |
| L8050PLT3G | S-L8050PLT3G | 80P 10000/Tape&Reel |
| L8050QLT1G | S- L8050QLT1G | 1YC 3000/Tape&Reel |
| L8050QLT3G | S-L8050QLT3G | 1YC 10000/Tape&Reel |
| L8050RLT1G | S-L8050RLT1G | 1YE 3000/Tape&Reel |
| L8050RLT3G | S-L8050RLT3G | 1YE 10000/Tape&Reel |
| L8050SLT1G | S-L8050SLT1G | 80S 3000/Tape&Reel |
| L8050SLT3G | S-L8050SLT3G | 80S 10000/Tape&Reel |

MAXIMUM RATINGS

| Rating | Symbol | Max | Unit |
|------------------------------|-----------|-----|------|
| Collector-Emitter Voltage | V_{CEO} | 25 | V |
| Collector-Base Voltage | V_{CBO} | 40 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current-continuoun | I_c | 800 | mAdc |

THERMAL CHARACTERISTICS

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

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°C unless otherwise noted)

| Characteristic | Symbol | Min | Typ | Max | Unit |
|----------------|--------|-----|-----|-----|------|
|----------------|--------|-----|-----|-----|------|

OFF CHARACTERISTICS

| | | | | | |
|--|----------------------|----|---|-----|----|
| Collector-Emitter Breakdown Voltage (I _C =1.0mA) | V _{(BR)CEO} | 25 | - | - | V |
| Emitter-Base Breakdown Voltage (I _E =100μA) | V _{(BR)EBO} | 5 | - | - | V |
| Collector-Base Breakdown Voltage (I _C =100μA) | V _{(BR)CBO} | 40 | - | - | V |
| Collector Cutoff Current (V _{CB} =35V) | I _{CBO} | - | - | 150 | nA |
| Emitter Cutoff Current (V _{EB} =4V) | I _{EBO} | - | - | 150 | nA |

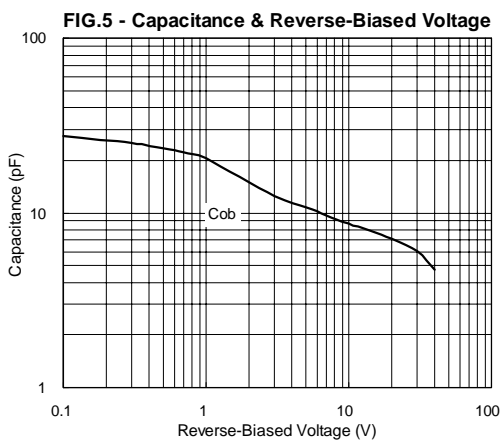
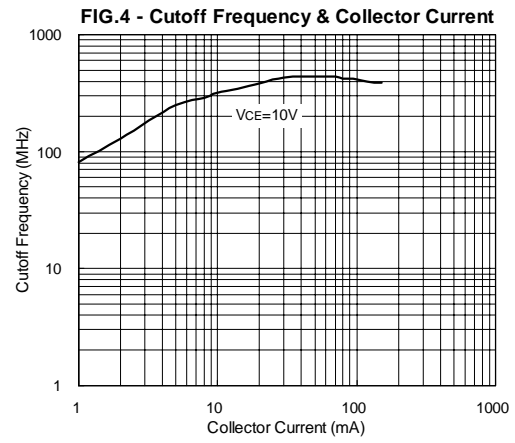
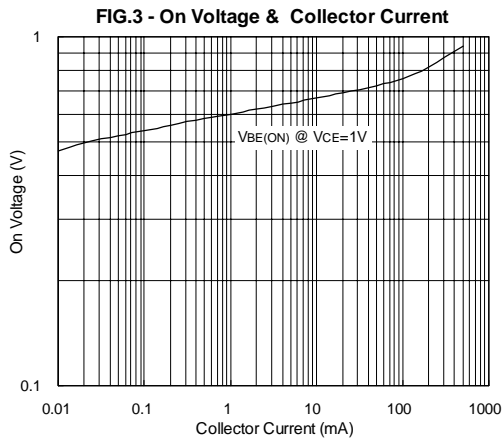
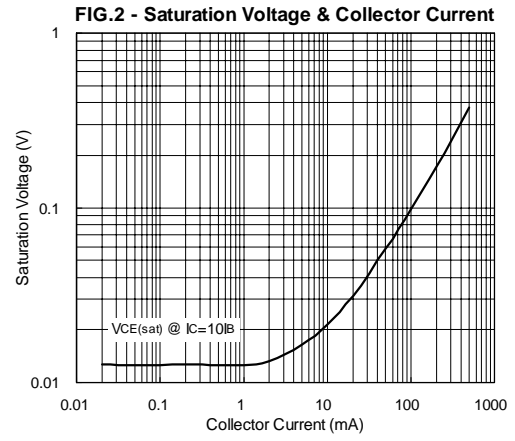
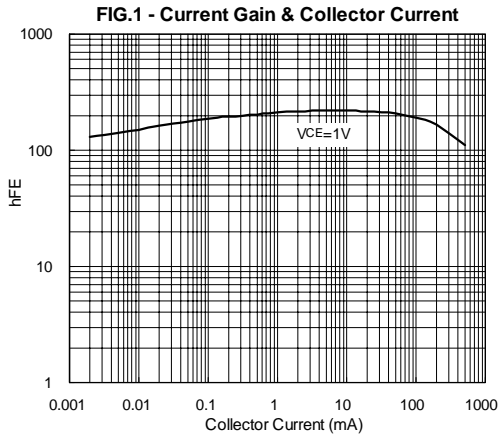
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

| Charateristic | Symbol | Min | Typ | Max | Unit |
|--|----------------------|-----|-----|-----|------|
| DC Current Gain I _C =100mA, V _{CE} =1V | h _{FE} | 100 | - | 600 | |
| Collector-Emitter Saturation Voltage (I _C =800mA, I _B =80mA) | V _{CE(sat)} | - | - | 0.5 | V |

NOTE :

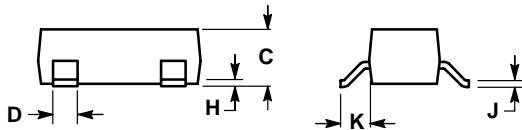
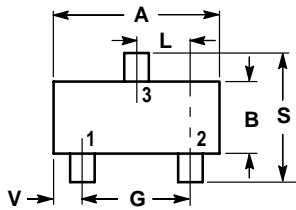
| * | P | Q | R | S |
|-----------------|---------|---------|---------|---------|
| h _{FE} | 100~200 | 150~300 | 200~400 | 300~600 |

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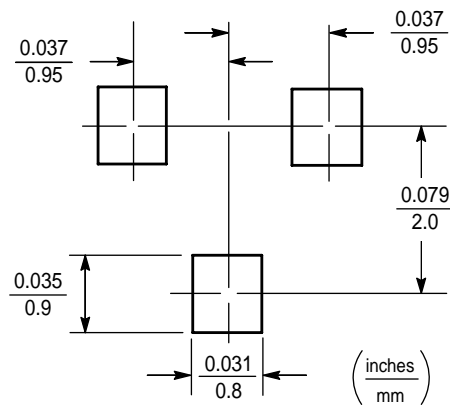


NOTES:

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



单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)