



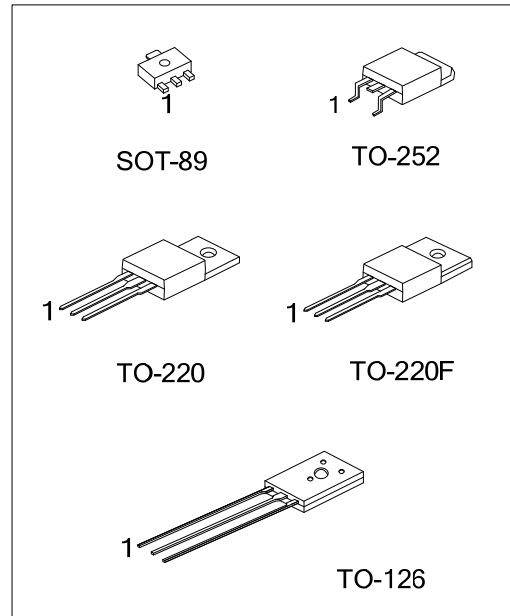
2SB834

PNP SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

■ DESCRIPTION

Low frequency power amplifier applications.



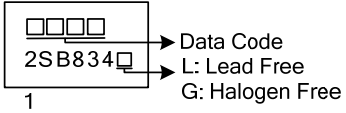
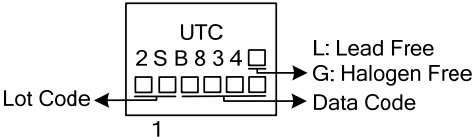
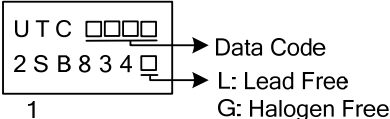
■ ORDERING INFORMATION

| Ordering Number | | Package | Pin Assignment | | | Packing |
|-----------------|-----------------|---------|----------------|---|---|-----------|
| Lead Free | Halogen Free | | 1 | 2 | 3 | |
| 2SB834L-x-AB3-R | 2SB834G-x-AB3-R | SOT-89 | B | C | E | Tape Reel |
| 2SB834L-x-T60-K | 2SB834G-x-T60-K | TO-126 | E | C | B | Bulk |
| 2SB834L-x-TA3-T | 2SB834G-x-TA3-T | TO-220 | B | C | E | Tube |
| 2SB834L-x-TF3-T | 2SB834G-x-TF3-T | TO-220F | B | C | E | Tube |
| 2SB834L-x-TN3-R | 2SB834G-x-TN3-R | TO-252 | B | C | E | Tape Reel |

Note: Pin Assignment: B: Base C: Collector E: Emitter

| | |
|---|---|
| <p>2SB834L-x-AB3-R</p> <p>(1)Packing Type (2)Package Type (3)Rank (4)Lead Plating</p> | <p>(1) K: Bulk, T: Tube, R: Tape Reel (2) AB3: SOT-89, T60: TO-126, TA3: TO-220, TF3: TO-220F, TN3: TO-252 (3) x: refer to Classification of h_{FE1} (4) L: Lead Free, G: Halogen Free</p> |
|---|---|

MARKING INFORMATION

| PACKAGE | MARKING |
|-----------------------------|--|
| SOT-89 |  <p> Data Code L: Lead Free G: Halogen Free </p> |
| TO-220 TO-220F TO-252 |  <p> Lot Code L: Lead Free G: Halogen Free Data Code </p> |
| TO-126 |  <p> Data Code L: Lead Free G: Halogen Free </p> |

■ ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

| PARAMETER | | SYMBOL | RATINGS | UNIT |
|--|----------------|-----------|------------|------------------|
| Collector-Base Voltage | | V_{CBO} | -60 | V |
| Collector-Emitter Voltage | | V_{CEO} | -60 | V |
| Emitter-Base Voltage | | V_{EBO} | -7 | V |
| Collector Current | | I_C | -3 | A |
| Base Current | | I_B | -0.5 | A |
| Power Dissipation ($T_C=25^\circ\text{C}$) | SOT-89 | P_D | 3 | W |
| | TO-220 | | 30 | W |
| | TO-252 | | 26 | W |
| | TO-126/TO-220F | | 25 | W |
| Junction Temperature | | T_J | +125 | $^\circ\text{C}$ |
| Storage Temperature | | T_{STG} | -40 ~ +150 | $^\circ\text{C}$ |

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

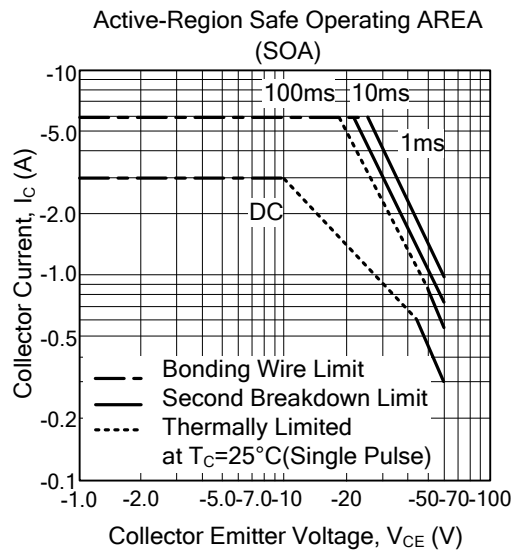
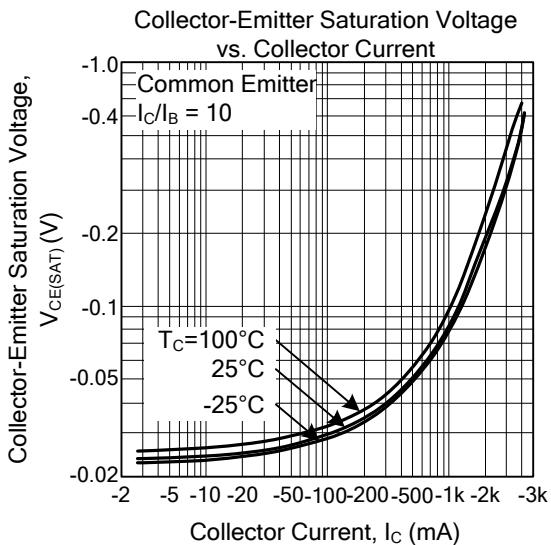
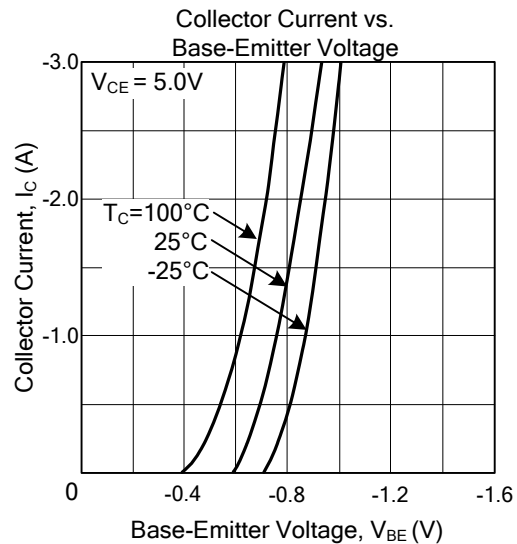
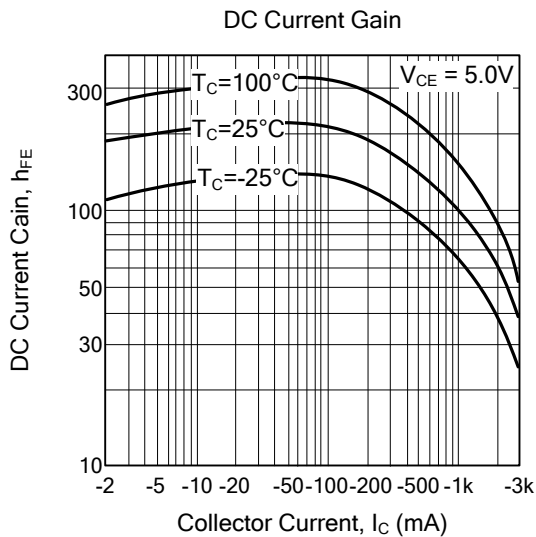
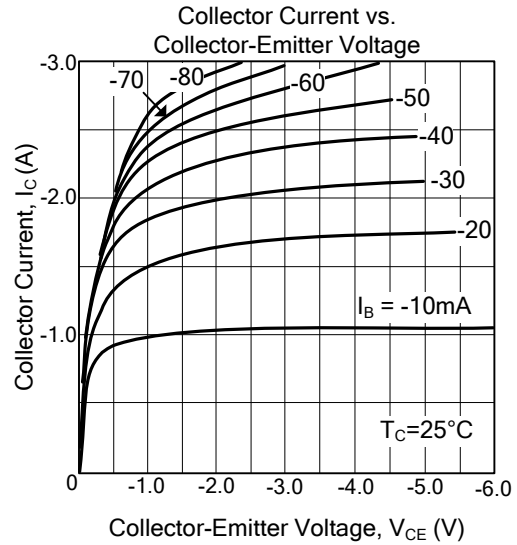
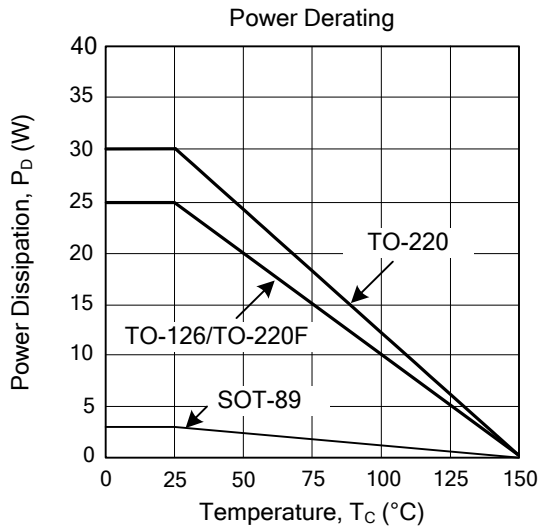
■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified)

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|--------------------------------------|---------------|---------------------------------------|-----|------|------|---------------|
| Collector-Emitter Breakdown Voltage | BV_{CEO} | $I_C=-50\text{mA}$ | -60 | | | V |
| Collector Cut-Off Current | I_{CBO} | $V_{CB}=-60\text{V}$ | | | -100 | μA |
| Emitter Cut-Off Current | I_{EBO} | $V_{EB}=-7\text{V}$ | | | -100 | μA |
| Collector-Emitter Saturation Voltage | $V_{CE(SAT)}$ | $I_C=-3\text{A}, I_B=0.3\text{A}$ | | | -1 | V |
| Base-Emitter On Voltage | $V_{BE(ON)}$ | $V_{CE}=-5\text{V}, I_C=-0.5\text{A}$ | | -0.7 | -1 | V |
| DC Current Gain | h_{FE1} | $I_C=-0.5\text{A}, V_{CE}=-5\text{V}$ | 60 | | 300 | |
| | h_{FE2} | $I_C=-3\text{A}, V_{CE}=-5\text{V}$ | 20 | | | |
| Current Gain Bandwidth Product | f_T | $V_{CE}=-5\text{V}, I_C=-0.5\text{A}$ | | 9 | | MHZ |

■ CLASSIFICATION of h_{FE1}

| RANK | O | Y | GR |
|-------|--------|---------|---------|
| RANGE | 60-120 | 100-200 | 150-300 |

TYPICAL CHARACTERISTICS



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