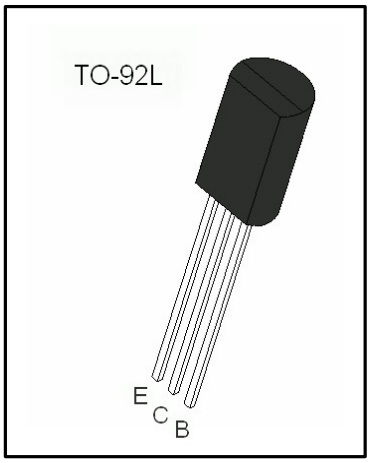
## Audio Power Amplifier

- Complement to KSC2328A
- Collector Power Dissipation : PC=1W
- 3 Watt Output Application

### Absolute Maximum Ratings (Ta=25℃)

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Collector-Base Voltage | $BV_{CBO}$ | -30 | V |
| Collector-Emitter Voltage | $BV_{CEO}$ | -30 | V |
| Emitter-Base Voltage | $BV_{EBO}$ | -5 | V |
| Collector Current | $I_C$ | -2 | A |
| Collector Power Dissipation | $P_C$ | 1 | W |
| Junction Temperature | Tj | 150 | ℃ |
| Storage Temperature | Tstg | -55～150 | ℃ |




### Electrical Characteristics (Ta=25℃)

| Parameter | Symbol | Conditions | Value | | | Unit |
|---|---|---|---|---|---|---|
| | | | Min | Typ | Max | |
| Collector-base breakdown voltage | $BV_{CBO}$ | $I_C$ = -100μA, $I_E$ = 0 | -30 | | | V |
| Collector-emitter breakdown voltage | $BV_{CEO}$ | $I_C$ = -10mA, $I_B$ = 0 | -30 | | | V |
| Emitter-base breakdown voltage | $BV_{EBO}$ | $I_E$ = -1mA, $I_C$ = 0 | -5 | | | V |
| Collector cut-off current | $I_{CBO}$ | $V_{CB}$ = -30V, $I_E$ = 0 | | | -100 | nA |
| Emitter cut-off current | $I_{EBO}$ | $V_{EB}$ = -5V, $I_C$ = 0 | | | -100 | nA |
| DC current gain | $h_{FE}$ | $V_{CE}$=-2V, $I_C$= -500mA | 100 | | 320 | |
| Collector-emitter saturation voltage | $V_{CESAT}$ | $I_C$ = -1.5A, $I_B$ = -30mA | | | -2.0 | V |
| Base -emitter voltage | $V_{BE(ON)}$ | $V_{CE}$=-2V, $I_C$= -500mA | | | -1.0 | V |
| Transition frequency | $f_T$ | $V_{CE}$=-2V, $I_C$= -500mA | 30 | | | $MH_Z$ |
| Collector output capacitance | Cob | $V_{CB}$= -10V,$I_E$=0, f=1MHz | | 48 | | pF |

### $h_{FE}$ Classification

| Classification | O | Y |
|---|---|---|
| $h_{FE}$ | 100-200 | 160-320 |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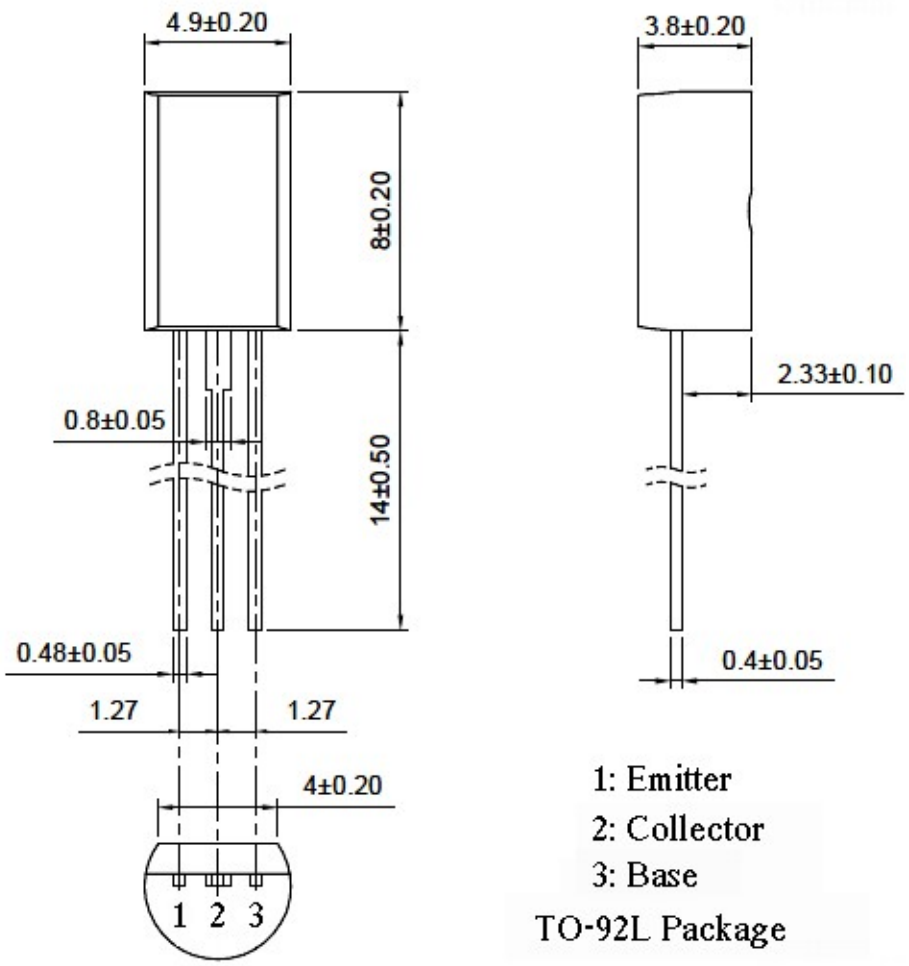
mail:lge@lgesemi.com

Unit:mm




1: Emitter
2: Collector
3: Base
TO-92L Package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