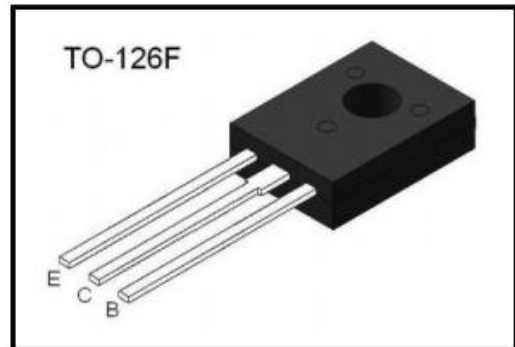


isc Silicon NPN Power Transistor

KSE340

DESCRIPTION

- High Collector-Emitter breakdown voltage
- Low Collector Saturation Voltage
- Complement to Type KSE350
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- High voltage general purpose applications
- Suitable for transform

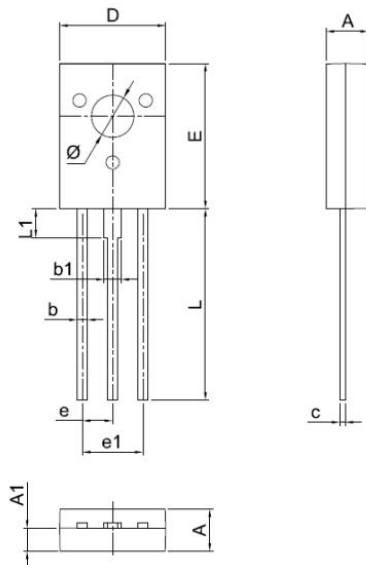
ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|--------------------|
| V_{CBO} | Collector-Base Voltage | 300 | V |
| V_{CEO} | Collector-Emitter Voltage | 300 | V |
| V_{EBO} | Emitter-Base Voltage | 5 | V |
| I_C | Collector Current-Continuous | 0.3 | A |
| P_C | Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$ | 20 | W |
| | Collector Power Dissipation @ $T_a=25^{\circ}\text{C}$ | 1.2 | |
| T_J | Junction Temperature | 150 | $^{\circ}\text{C}$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^{\circ}\text{C}$ |

isc Silicon NPN Power Transistor
KSE340
ELECTRICAL CHARACTERISTICS

 T_C=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | MAX | UNIT |
|----------------------|--------------------------------------|--|-----|------|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = 10mA; I _B = 0 | 300 | | V |
| V _{(BR)CBO} | Collector-Base Breakdown Voltage | I _C = 0.1mA; I _E = 0 | 300 | | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = 300V; I _E = 0 | | 100 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = 3V; I _C = 0 | | 100 | μ A |
| V _{CE(sat)} | Collector-emitter saturation voltage | I _C = 50mA, I _B = 5mA | | 0.75 | V |
| V _{BE(sat)} | Base -emitter saturation voltage | I _C = 10mA, I _B = 1mA | | 0.75 | V |
| h _{FE} | DC Current Gain | I _C = 50mA; V _{CE} = 10V | 30 | 240 | |



| Symbol | Millimeter | |
|--------|------------|-------|
| | Min. | Max. |
| A | 3.00 | 3.30 |
| A1 | 1.60 | 1.80 |
| b | 0.66 | 0.86 |
| b1 | 1.17 | 1.37 |
| c | 0.30 | 0.50 |
| D | 7.50 | 7.90 |
| E | 10.60 | 11.00 |
| e | 2.25 | 2.33 |
| e1 | 4.50 | 4.66 |
| L | 14.50 | 15.50 |
| L1 | 1.90 | 2.50 |
| Φ | 3.10 | 3.30 |

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