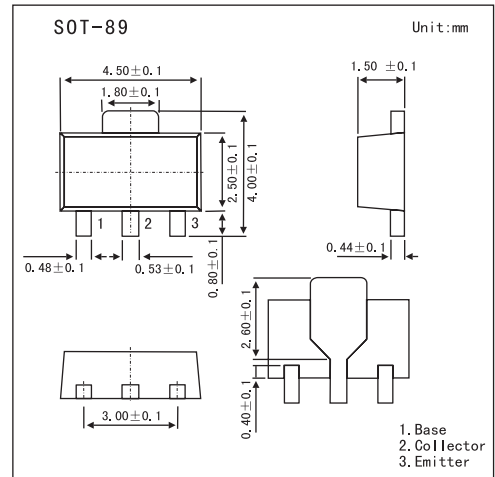


KSA1201

Features

- Collector-Emitter Voltage: $V_{CE0} = -120V$
- $f_T = 120MHz$
- Collector Power Dissipation $P_C = 1$ to $2W$: Mounted on Ceramic Board



Absolute Maximum Ratings $T_a = 25^\circ C$

| Parameter | Symbol | Rating | Unit |
|-----------------------------|-----------|-------------|------------|
| Collector-Base Voltage | V_{CBO} | -120 | V |
| Collector-Emitter Voltage | V_{CEO} | -120 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -800 | mA |
| Base Current | I_B | -160 | mA |
| Collector Power Dissipation | P_C | 500 | mW |
| | P_{C^*} | 1,000 | mW |
| Junction Temperature | T_J | 150 | $^\circ C$ |
| Storage Temperature | T_{STG} | -55 to +150 | $^\circ C$ |

Electrical Characteristics $T_a = 25^\circ C$

| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|------------------------------------|-----|-----|------|------|
| Collector-Emitter Breakdown Voltage | BV_{CEO} | $I_C = -10mA, I_B = 0$ | 120 | | | V |
| Emitter-Base Breakdown Voltage | BV_{EBO} | $I_E = -1mA, I_C = 0$ | -5 | | | V |
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -120V, I_E = 0$ | | | -100 | nA |
| Emitter Cut-off Current | I_{EBO} | $V_{BE} = -5V, I_C = 0$ | | | -100 | nA |
| DC Current Gain | h_{FE} | $V_{CE} = -5V, I_C = -100mA$ | 80 | | 240 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -500mA, I_B = -50mA$ | | | -1.0 | V |
| Base-Emitter On Voltage | $V_{BE(on)}$ | $V_{CE} = -5V, I_C = -500mA$ | | | -1.0 | V |
| Current Gain Bandwidth Product | f_T | $V_{CE} = -5V, I_C = -100mA$ | | 120 | | MHz |
| Output Capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | | | 30 | pF |

hFE Classification

| Marking | SDO | SDY |
|---------|--------|---------|
| Rank | O | Y |
| Type | 80~160 | 120~240 |