

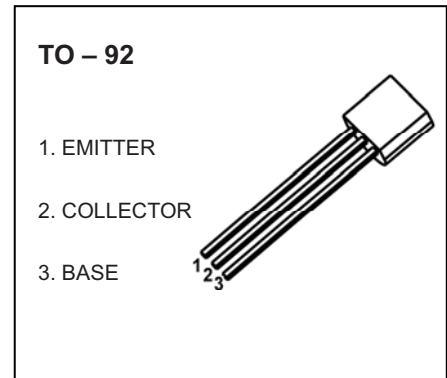
2SA608N TRANSISTOR (PNP)

FEATURES

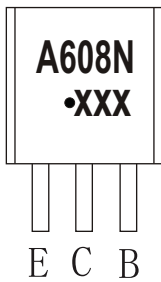
- Large Current Capacity and Wide ASO.

APPLICATIONS

- Capable of Being Used in The Low Frequency to High Frequency Range.

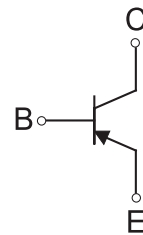


MARKING



A608N=Device code
Solid dot=Green molding compound device,
if none,the normal device
XXX=Code

Equivalent Circuit



ORDERING INFORMATION

| Part Number | Package | Packing Method | Pack Quantity |
|-------------|---------|----------------|---------------|
| 2SA608N | TO-92 | Bulk | 1000pcs/Bag |
| 2SA608N-TA | TO-92 | Tape | 2000pcs/Box |

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|----------------------------------|--|----------|-------|
| V _{CB0} | Collector-Base Voltage | -60 | V |
| V _{CE0} | Collector-Emitter Voltage | -50 | V |
| V _{EBO} | Emitter-Base Voltage | -6 | V |
| I _c | Collector Current -Continuous | -0.15 | A |
| P _D | Collector Power Dissipation | 500 | mW |
| R _{θJA} | Thermal Resistance from Junction to Ambient | 250 | °C /W |
| T _J ,T _{stg} | Operation Junction and Storage Temperature Range | -55~+150 | °C |

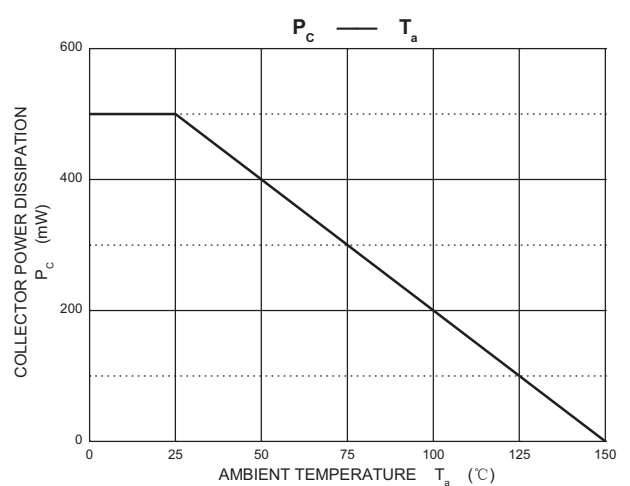
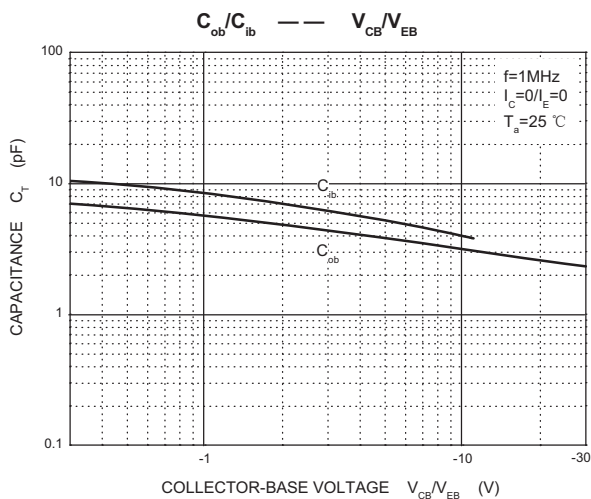
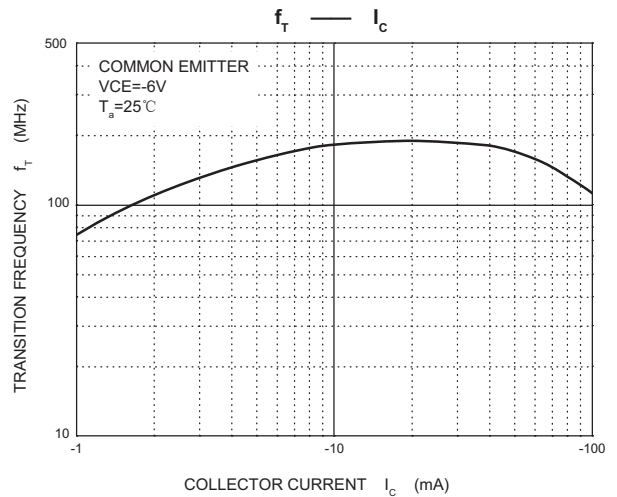
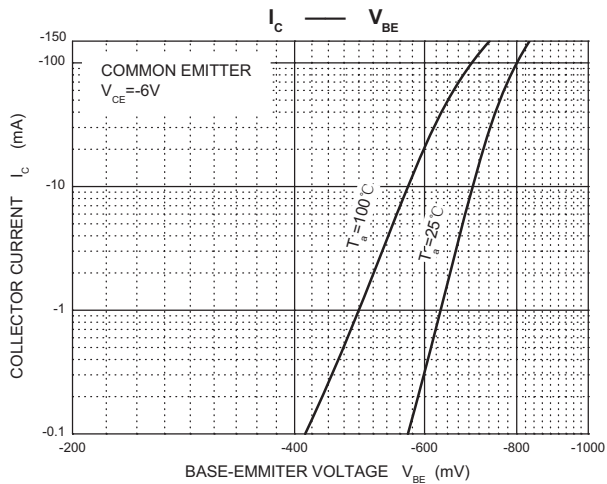
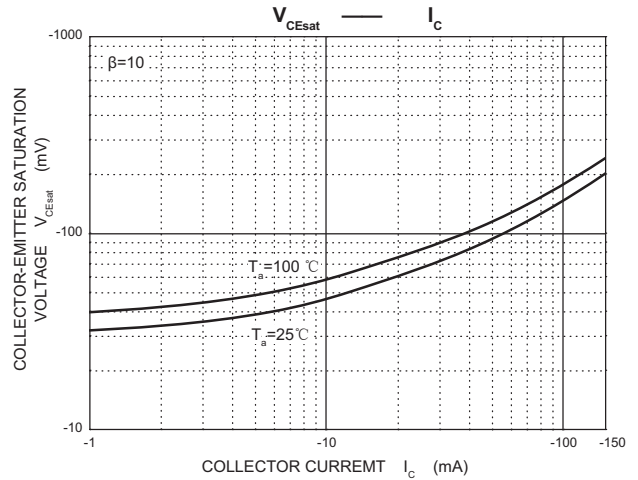
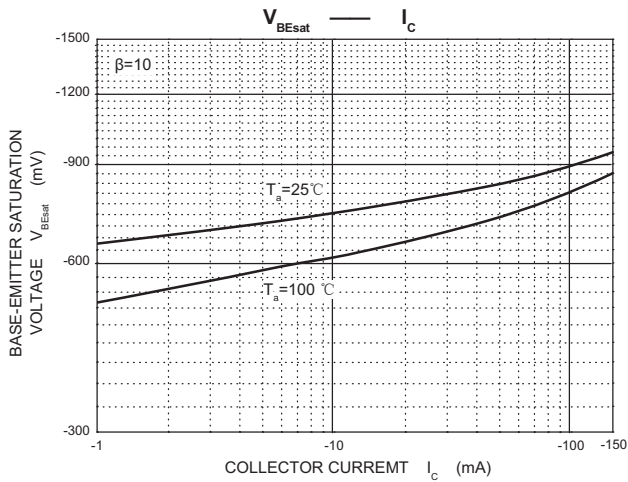
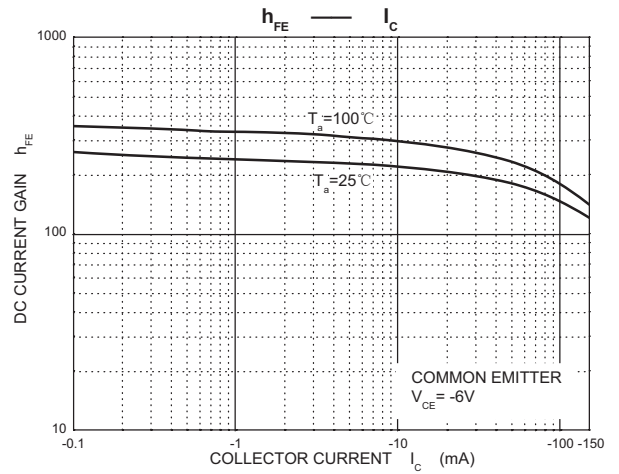
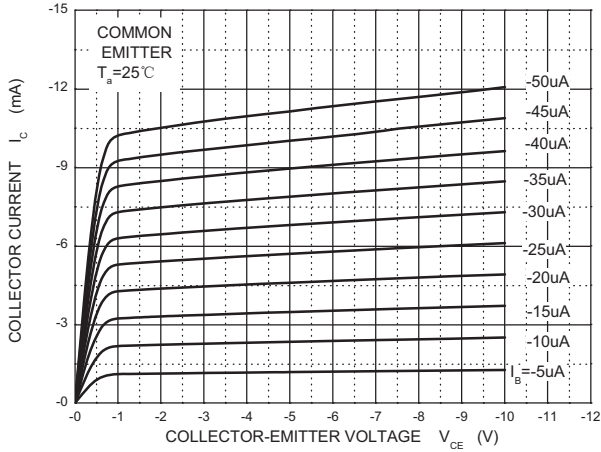
$T_a=25^\circ\text{C}$ unless otherwise specified

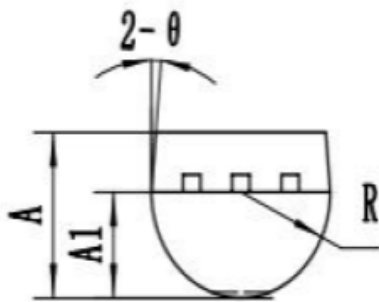
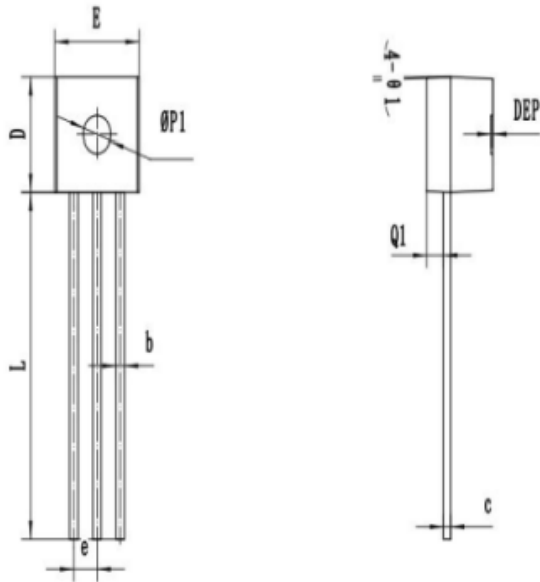
| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|---|-----|-----|------|---------------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C=-0.01\text{mA}, I_E=0$ | -60 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=-1\text{mA}, I_B=0$ | -50 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=-0.01\text{mA}, I_C=0$ | -6 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=-40\text{V}, I_E=0$ | | | -0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=-5\text{V}, I_C=0$ | | | -0.1 | μA |
| DC current gain | $h_{FE(1)}$ | $V_{CE}=-6\text{V}, I_C=-1\text{mA}$ | 160 | | 560 | |
| | $h_{FE(2)}$ | $V_{CE}=-6\text{V}, I_C=-0.1\text{mA}$ | 70 | | | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=-100\text{mA}, I_B=-10\text{mA}$ | | | -0.3 | V |
| Base-emitter saturation voltage | $V_{BE(sat)}$ | $I_C=-100\text{mA}, I_B=-10\text{mA}$ | | | -1 | V |
| Collector output capacitance | C_{ob} | $V_{CB}=-6\text{V}, I_C=0, f=1\text{MHz}$ | | 4.5 | | pF |
| Transition frequency | f_T | $V_{CE}=-6\text{V}, I_C=-10\text{mA}$ | | 200 | | MHz |

CLASSIFICATION OF $h_{FE(1)}$

| RANK | F | G |
|-------|---------|---------|
| RANGE | 160-320 | 280-560 |

Static Characteristic





| SYMBOL | MM | | |
|---------|-------|-------|-------|
| | MIN | NOM | MAX |
| *A | 3.00 | 3.25 | 3.50 |
| A1 | 2.20 | 2.30 | 2.40 |
| *b | 0.40 | 0.45 | 0.50 |
| *c | 0.25 | 0.30 | 0.35 |
| *D | 4.50 | 4.60 | 4.70 |
| *E | 4.50 | 4.60 | 4.70 |
| *e | 1.22 | 1.27 | 1.32 |
| *L | 14.00 | 14.30 | 14.60 |
| R | 2.20 | 2.30 | 2.40 |
| Q1 | 0.85 | 0.90 | 0.95 |
| θ | 3° | 5° | 7° |
| Ø1 | 1° | 3° | 5° |
| ØP1 | 1.40 | 1.50 | 1.60 |
| DEP | 0.05 | 0.10 | 0.20 |
| 带*为检验尺寸 | | | |