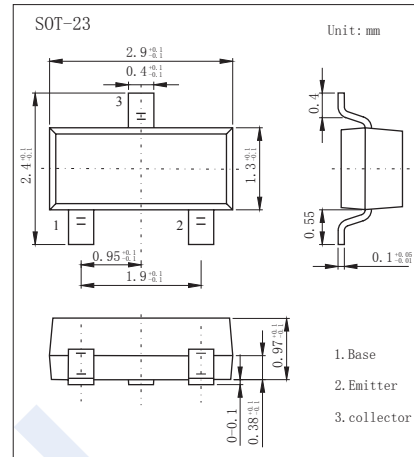


PNP Transistors

2SA1036-HF (2SA1036K-HF)

■ Features

- Large I_c . $I_{cMax.} = -500mA$
- Low $V_{CE(sat)}$. Ideal for low-voltage operation.
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



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

| Parameter | Symbol | Rating | Unit |
|-----------------------------|-----------|-------------|------------|
| Collector-base voltage | V_{CBO} | -40 | V |
| Collector-emitter voltage | V_{CEO} | -32 | V |
| Emitter-base voltage | V_{EBO} | -5 | V |
| Collector current * | I_c | -0.5 | A |
| Collector power dissipation | P_c | 0.2 | W |
| Junction temperature | T_j | 150 | $^\circ C$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ C$ |

* P_c max. must not be exceeded.

■ Electrical Characteristics $T_a = 25^\circ C$

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|---|-----|-----|------|------|
| Collector- base breakdown voltage | V_{CBO} | $I_c = -100 \mu A, I_E = 0$ | -40 | | | V |
| Collector- emitter breakdown voltage | V_{CEO} | $I_c = -1 mA, I_B = 0$ | -32 | | | |
| Emitter - base breakdown voltage | V_{EBO} | $I_E = -100 \mu A, I_c = 0$ | -5 | | | |
| Collector-base cut-off current | I_{CBO} | $V_{CB} = -20 V, I_E = 0$ | | | -100 | nA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -4V, I_c = 0$ | | | -100 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_c = -100mA, I_B = -1mA$ | | | -0.4 | V |
| Base - emitter saturation voltage | $V_{BE(sat)}$ | $I_c = -100mA, I_B = -1mA$ | | | -1.2 | |
| DC current gain | h_{FE} | $V_{CE} = -3V, I_c = -10mA$ | 82 | | 390 | |
| Output capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | | 7 | | pF |
| Transition frequency | f_T | $V_{CE} = -5V, I_E = -20mA, f = 100MHz$ | | 200 | | MHz |

■ h_{FE} Classification

| Type | 2SA1036/K-P-HF | 2SA1036/K-Q-HF | 2SA1036/K-R-HF |
|---------|-----------------|-----------------|-----------------|
| Range | 82-180 | 120-270 | 180-390 |
| Marking | HP _F | HQ _F | HR _F |

PNP Transistors

2SA1036-HF (2SA1036K-HF)

Typical Characteristics

