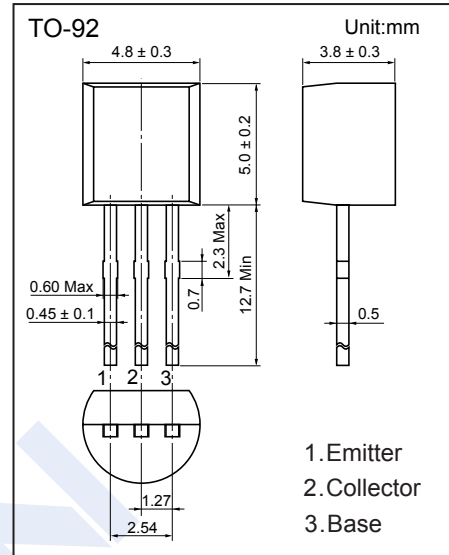


PNP Transistors

KTA1270

■ Features

- Excellent hFE Linearity
- Complementary to KTC3202.



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|--------------------------------|------------------|------------|------|
| Collector - Base Voltage | V _{CB0} | -35 | V |
| Collector - Emitter Voltage | V _{CEO} | -30 | |
| Emitter - Base Voltage | V _{EBO} | -5 | |
| Collector Current - Continuous | I _C | -500 | mA |
| Emitter Current | I _E | 500 | |
| Collector Power Dissipation | P _C | 625 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature range | T _{stg} | -55 to 150 | |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|-----------------------------------------------------|--------|----------|-------|------|
| Collector- base breakdown voltage | V _{CB0} | I _C = -100μA, I _E = 0 | -35 | | | V |
| Collector- emitter breakdown voltage | V _{CEO} | I _C = -1 mA, I _B = 0 | -30 | | | |
| Emitter - base breakdown voltage | V _{EBO} | I _E = -100 μA, I _C = 0 | -5 | | | |
| Collector-base cut-off current | I _{CB0} | V _{CB} = -35V, I _E = 0 | | | -0.1 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} = 5V, I _C = 0 | | | -0.1 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C = -100mA, I _B = -10mA | | | -0.25 | V |
| Base - emitter saturation voltage | V _{BE(sat)} | I _C = -100mA, I _B = -10mA | | | -1.2 | |
| Base - emitter voltage | V _{BE(on)} | V _{CE} = -1V, I _C = -100mA | | | -1 | |
| DC current gain | h _{FE(1)} | V _{CE} = -1V, I _C = -100mA | 70 | | 240 | |
| | h _{FE(2)} | V _{CE} = -6V, I _C = -400mA | O Y | 25 40 | | |
| Collector output capacitance | C _{ob} | V _{CB} = -6V, I _E = 0, f = 1MHz | | 13 | | pF |
| Transition frequency | f _T | V _{CE} = -6V, I _C = -20mA | | 200 | | MHz |

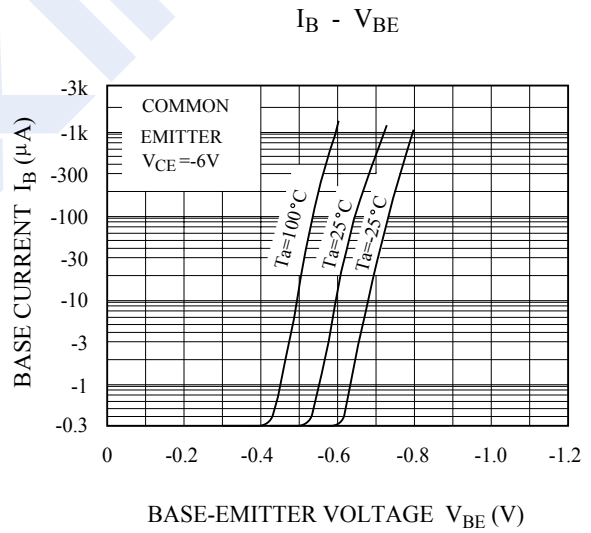
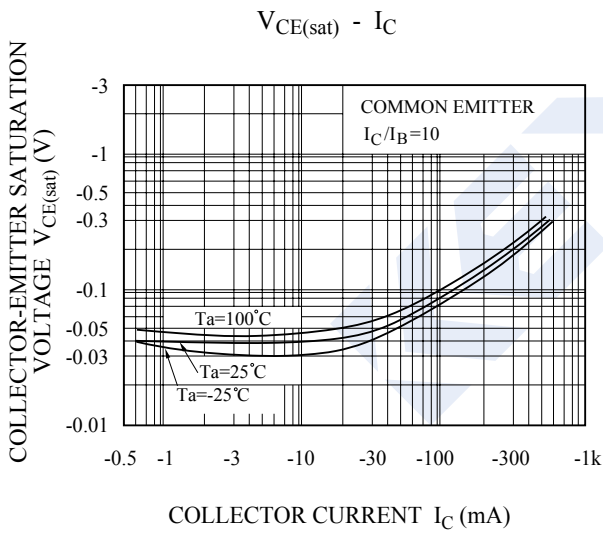
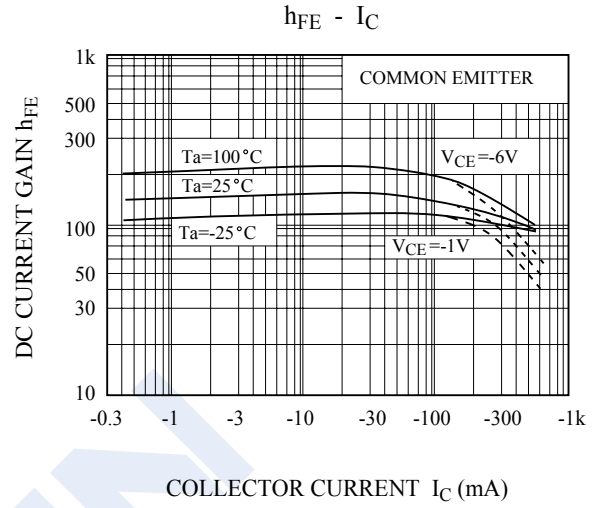
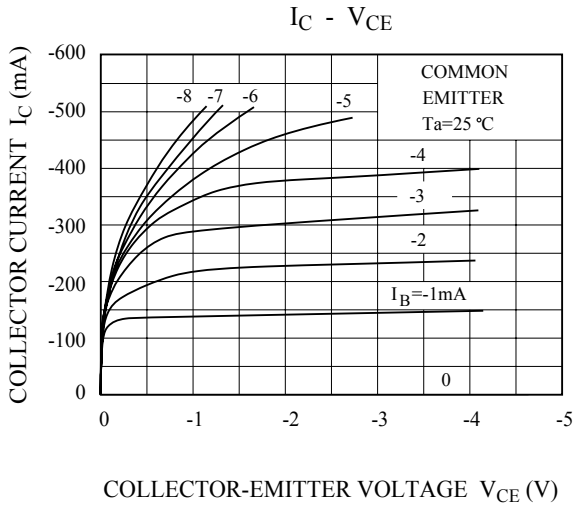
■ Classification of h_{FE(1)}

| Type | KTA1270-O | KTA1270-Y |
|-------|-----------|-----------|
| Range | 70-140 | 120-240 |

PNP Transistors

KTA1270

■ Typical Characteristics



SAFE OPERATING AREA

