

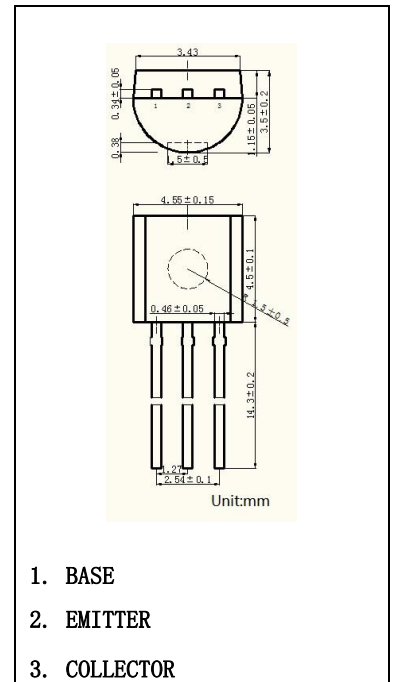


TO-92 Plastic-Encapsulate Transistors

KSP10-061 TRANSISTOR (NPN)

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

| Symbol | Parameter | Value | Units |
|------------------|------------------------------|---------|-------|
| V _{CBO} | Collector-Base Voltage | 30 | V |
| V _{CEO} | Collector-Emitter Voltage | 25 | V |
| V _{EBO} | Emitter-Base Voltage | 3 | V |
| I _C | Collector Current-Continuous | 50 | mA |
| P _C | Collector Power Dissipation | 0.35 | W |
| T _J | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55-150 | °C |



ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified):

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|----------------------|---|-----|-----|------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C =100uA, I _E =0 | 30 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =1mA, I _B =0 | 25 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _C =10uA, I _C =0 | 3 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =25V, I _E =0 | | | 0.1 | uA |
| Emitter cut-off current | I _{EBO} | V _{EB} =2V, I _C =0 | | | 0.1 | uA |
| DC current gain | HFE ₍₁₎ | V _{CE} =5V, I _C =1mA | 60 | | | |
| | HFE ₍₂₎ | V _{CE} =10V, I _C =4mA | 60 | | 200 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =4mA, I _B =0.4mA | | | 0.5 | V |
| Base-emitter on voltage | V _{BE(on)} | V _{CE} =10V, I _C =4mA | | | 0.95 | V |
| Collector capacitance | C _{ob} | V _{CB} =10V, f=1MHz | | | 0.7 | pF |
| Gain Bandwidth Product | f _T | V _{CE} =10V, I _C =4mA, f=100MHz | 650 | | | MHz |

Typical Characteristics

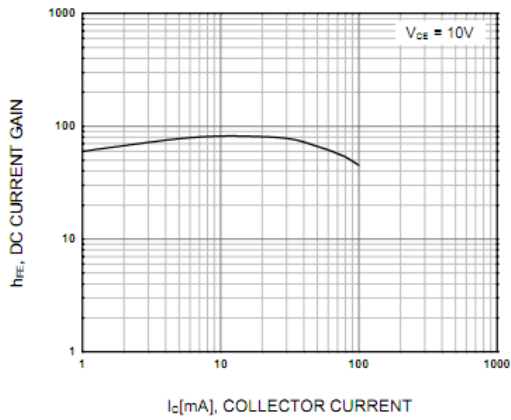


Figure 1. DC current Gain

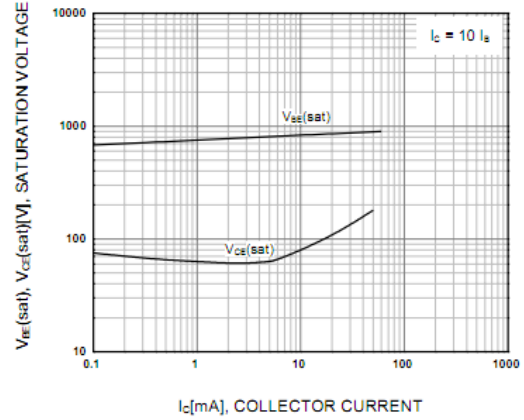


Figure 2. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

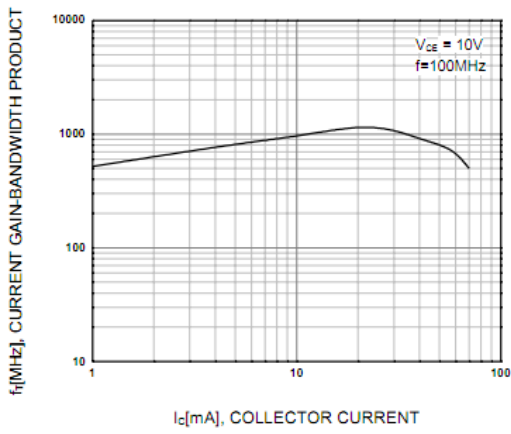


Figure 3. Current Gain Bandwidth Product

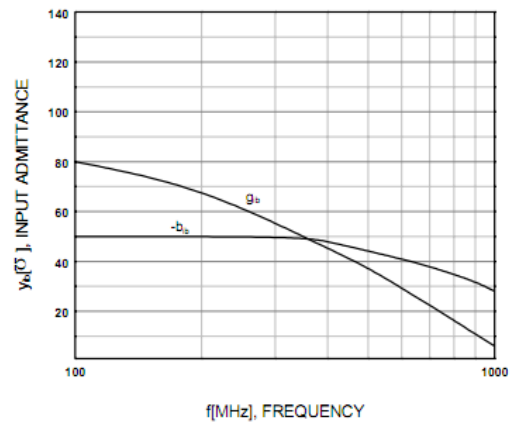


Figure 4. Rectangular Form

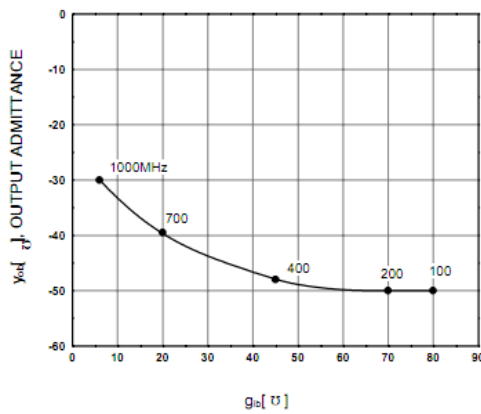


Figure 5. Polar Form

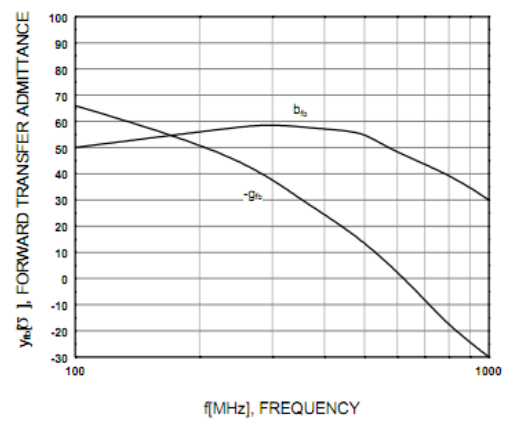


Figure 6. Rectangular Form

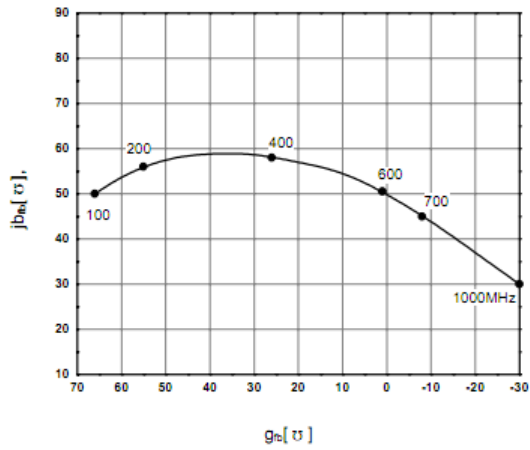


Figure 7. Polar Form

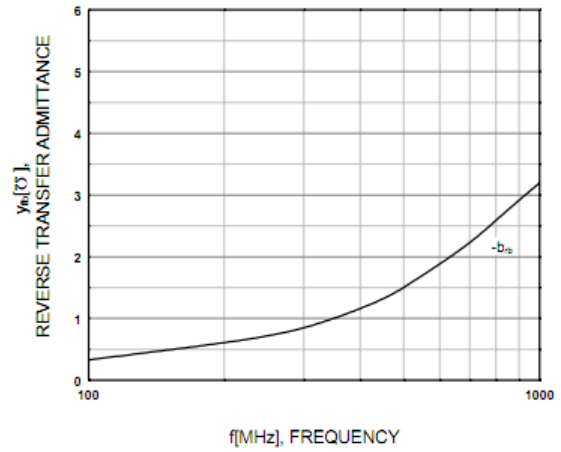


Figure 8. Rectangular Form

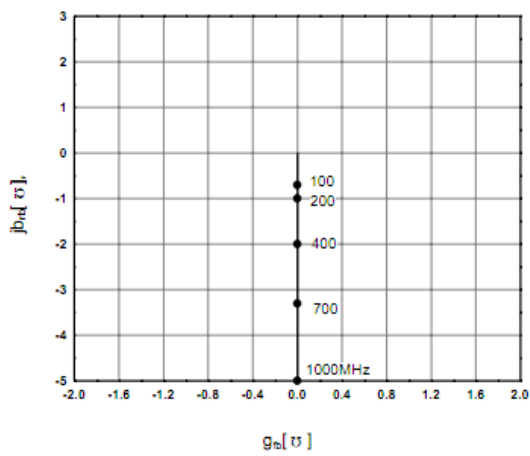


Figure 9. Polar Form

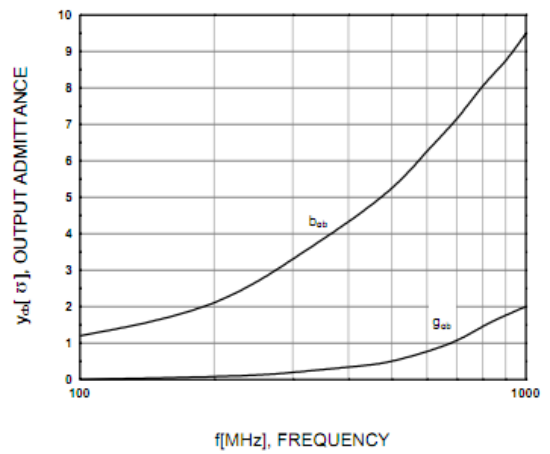


Figure 10. Rectangular Form

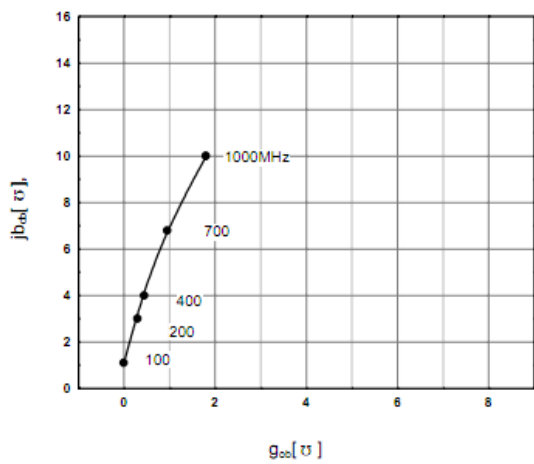


Figure 11. Polar Form

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