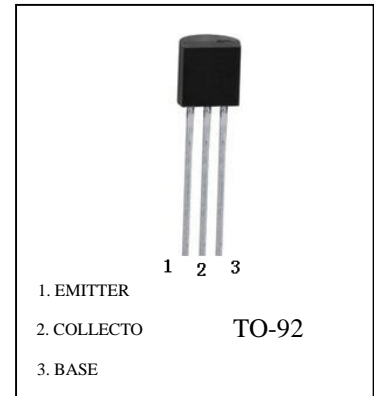


FEATURES

- Audio amplifier
- Flash unit of camera
- Switching circuit

D965 (NPN)



Maximum Ratings (TA=25 °C unless otherwise noted)

| Parameter | Symbol | Val | Units |
|-------------------------------|------------------|------------|-------|
| Collector-Base Voltage | V _{CB0} | 42 | V |
| Collector-Emitter Voltage | V _{CEO} | 22 | V |
| Emitter-Base Voltage | V _{EBO} | 6 | V |
| Collector Current -Continuous | I _C | 5 | A |
| Collector Power dissipation | P _C | 0.75 | W |
| Storage Temperature | T _{stg} | -55to +150 | °C |

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

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|-----|-----|------|------|
| Collector-base breakdown voltage | V _{CB0} | I _C =1 mA, I _E =0 | 42 | | | V |
| Collector-emitter breakdown voltage | V _{CEO} | I _C = 1 mA, I _B =0 | 22 | | | V |
| Emitter-base breakdown voltage | V _{EBO} | I _E = 10 μA, I _C =0 | 6 | | | V |
| Collector cut-off current | I _{CB0} | V _{CB} = 30 V, I _E =0 | | | 0.1 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} = 6 V, I _C =0 | | | 0.1 | μA |
| DC current gain | H _{FE (1)} | V _{CE} = 2 V, I _C = 0.15mA | 150 | | | |
| | H _{FE (2)} | V _{CE} =2V, I _C = 500 mA | 340 | | 950 | |
| | H _{FE (3)} | V _{CE} = 2V, I _C = 2000mA | 150 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =3000mA, I _B =100 mA | | | 0.35 | V |

CLASSIFICATION OF h_{FE(1)}

| Rank | R | T |
|-------|---------|---------|
| Range | 340-600 | 560-950 |

D965 Typical Characteristics

