

TRANSISTOR (PNP)

FEATURES

Complimentary to MMBT5551

MARKING:2L



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

| Symbol (符号) | Parameter (参数名称) | Value (额定值) | Units (单位) |
|----------------|---------------------------------------|----------------|---------------|
| VCBO | Collector-Base Voltage (集电极-基极电压) | -160 | V |
| VCEO | Collector-Emitter Voltage (集电极-发射极电压) | -150 | V |
| VEBO | Emitter-Base Voltage (发射极-基极电压) | -5 | V |
| IC | Collector Current -Continuous (集电极电流) | -0.6 | A |
| PC | Collector Power Dissipation (耗散功率) | 0.3 | W |
| Tj | Junction Temperature (结温) | 150 | °C |
| Tstg | Storage Temperature (储存温度) | -55-150 | °C |

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

| Parameter (参数名称) | Symbol (符号) | Test conditions (测试条件) | MIN (最小值) | TYP (典型值) | MAX (最大值) | UNIT (单位) |
|---|----------------|---------------------------|--------------|--------------|--------------|--------------|
| Collector-base breakdown voltage 集电极-基极击穿电压 | V(BR)CBO | IC= -100μA, IE=0 | -160 | | | V |
| Collector-emitter breakdown voltage 集电极-发射极击穿电压 | V(BR)CEO | IC= -1mA, IB=0 | -150 | | | V |
| Emitter-base breakdown voltage 发射极-基极击穿电压 | V(BR)EBO | IE=-100μA, IC=0 | -5 | | | V |
| Collector cut-off current 集电极-基极截止电流 | ICBO | VCB=-120 V, IE=0 | | | -1 | μ A |
| Collector cut-off current 集电极-发射极截止电流 | ICEO | VCE=-120V, IB=0 | | | -10 | μ A |
| Emitter cut-off current 发射极-基极截止电流 | IEBO | VEB=-5V, IC=0 | | | -1 | μ A |
| DC current gain 直流电流增益 | hFE | VCE=-5V, IC= -10mA | 100 | | 400 | |
| Collector-emitter saturation voltage 集电极-发射极饱和压降 | VCE(sat) | IC=-50mA, IB= -5mA | | | -0.5 | V |
| Base-emitter saturation voltage 发射极-基极饱和压降 | VBE(sat) | IC=-50mA, IB= -5mA | | | -1 | V |

CLASSIFICATION OF hFE

| Range | 100-200 | 200-300 | 300-400 |
|-------|---------|---------|---------|
| | | | |

Typical Characteristics

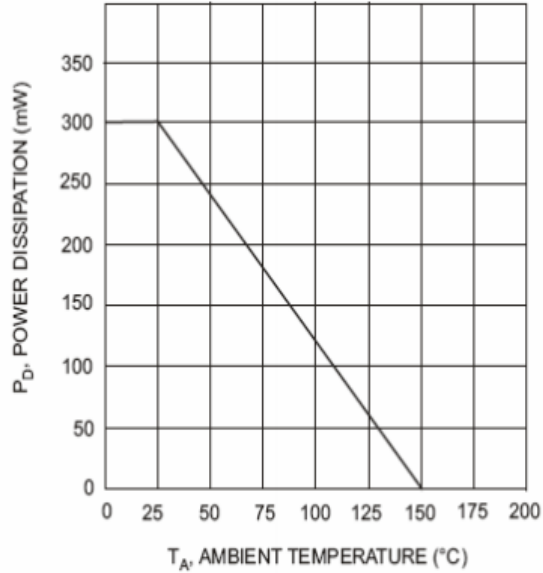


Fig. 1, Max Power Dissipation vs Ambient Temperature

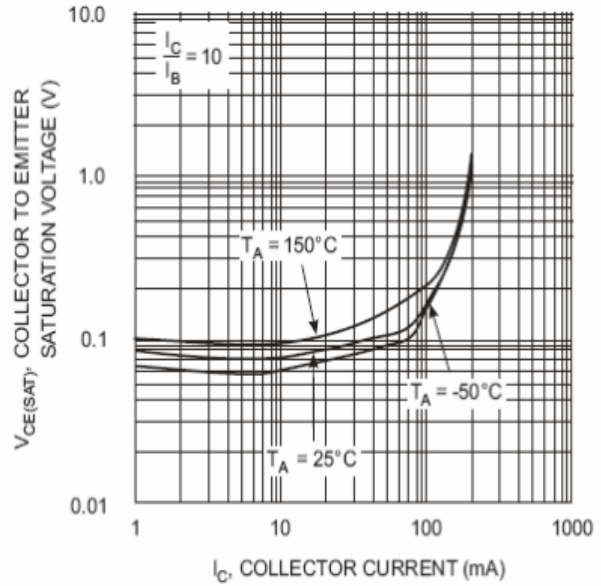


Fig. 2, Collector Emitter Saturation Voltage vs. Collector Current

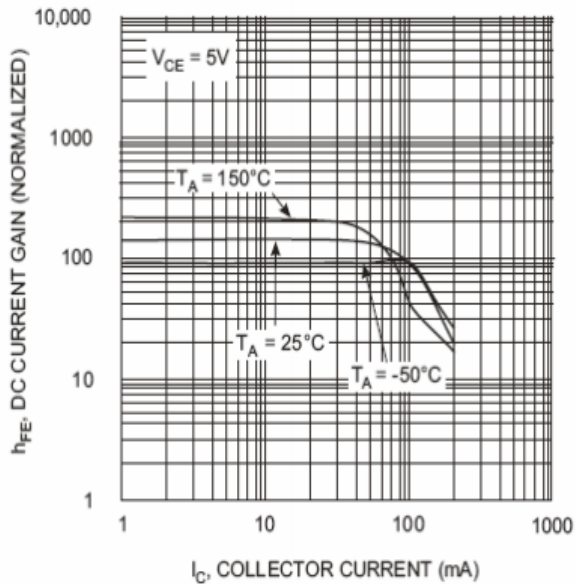


Fig. 3, DC Current Gain vs. Collector Current

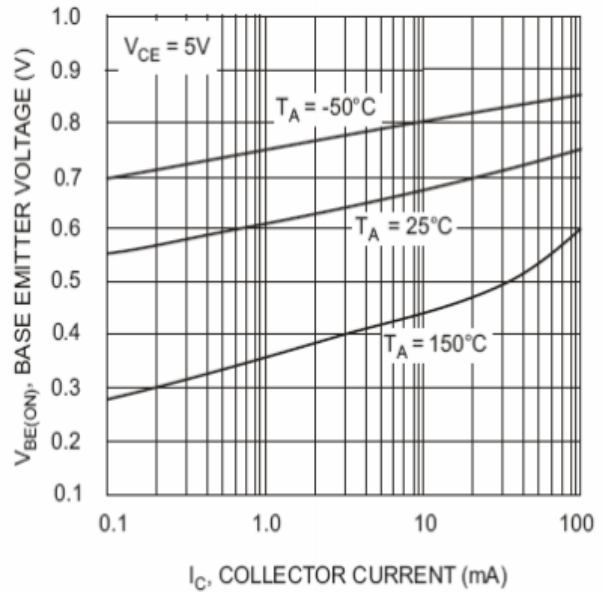


Fig. 4, Base Emitter Voltage vs. Collector Current