

LAPT

2SA1215

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC2921)

Application : Audio and General Purpose

■ Absolute maximum ratings (Ta=25°C)

| Symbol | Ratings | Unit |
|------------------|---------------------------|------|
| V _{CB0} | -160 | V |
| V _{CEO} | -160 | V |
| V _{EB0} | -5 | V |
| I _C | -15 | A |
| I _B | -4 | A |
| P _C | 150(T _C =25°C) | W |
| T _J | 150 | °C |
| T _{stg} | -55 to +150 | °C |

■ Electrical Characteristics (Ta=25°C)

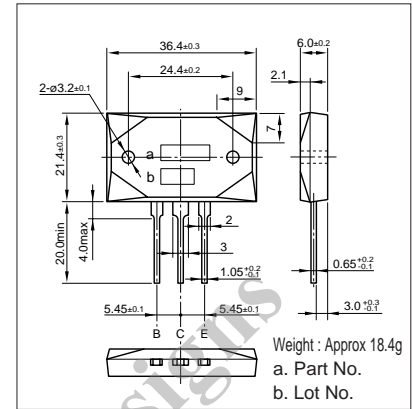
| Symbol | Conditions | Ratings | Unit |
|----------------------|--|---------|------|
| I _{CB0} | V _{CB} =-160V | -100max | μA |
| I _{EB0} | V _{EB} =-5V | -100max | μA |
| V _{(BR)CEO} | I _C =-25mA | -160min | V |
| h _{FE} | V _{CE} =-4V, I _C =-5A | 50min* | |
| V _{CE(sat)} | I _C =-5A, I _B =-0.5A | -2.0max | V |
| f _T | V _{CE} =-12V, I _E =2A | 50typ | MHz |
| C _{OB} | V _{CB} =-10V, f=1MHz | 400typ | pF |

*h_{FE} Rank \bar{O} (50 to 100), P(70 to 140), Y(90 to 180)

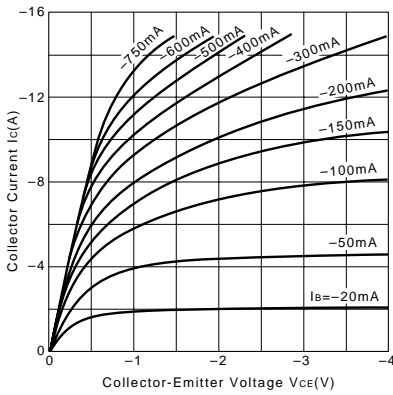
■ Typical Switching Characteristics (Common Emitter)

| V _{CC} (V) | R _L (Ω) | I _C (A) | V _{B2} (V) | I _{B1} (mA) | I _{B2} (mA) | t _{on} (μs) | t _{stg} (μs) | t _f (μs) |
|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|---------------------|
| -60 | 12 | -5 | 5 | -500 | 500 | 0.25typ | 0.85typ | 0.2typ |

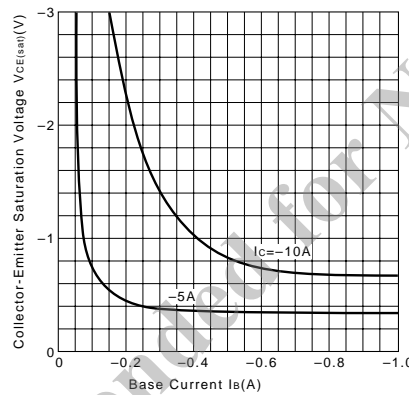
External Dimensions MT-200



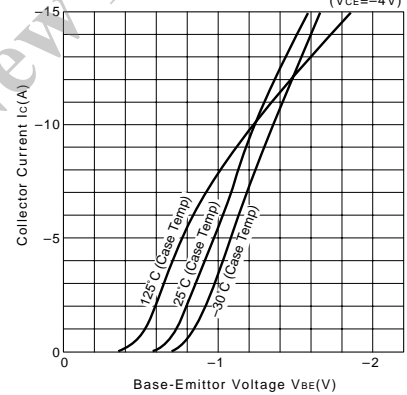
I_C-V_{CE} Characteristics (Typical)



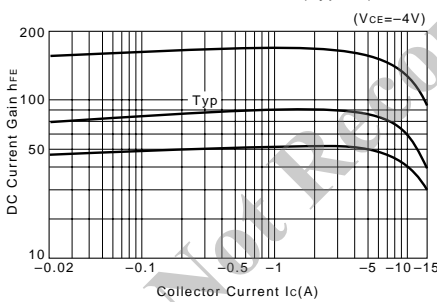
V_{CE(sat)}-I_B Characteristics (Typical)



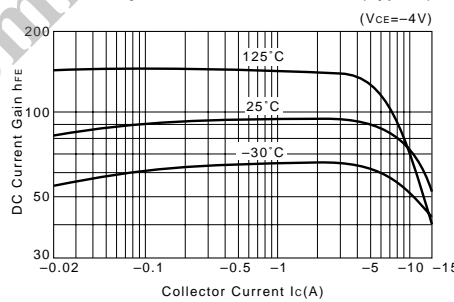
I_C-V_{BE} Temperature Characteristics (Typical)



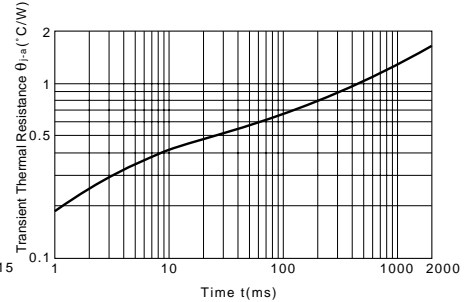
h_{FE}-I_C Characteristics (Typical)



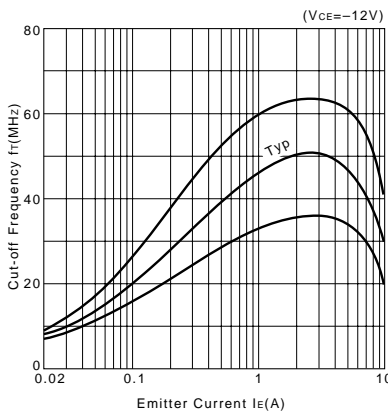
h_{FE}-I_C Temperature Characteristics (Typical)



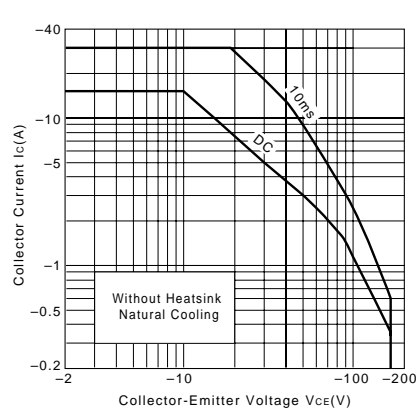
θ_{j-a}-t Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating

