

2SC4883/4883A

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1859/A)

Application : Audio Output Driver and TV Velocity-modulation

Absolute maximum ratings (Ta=25°C)

| Symbol | 2SC4883 | 2SC4883A | Unit |
|------------------|-------------|----------|------|
| V _{CBO} | 150 | 180 | V |
| V _{CEO} | 150 | 180 | V |
| V _{EBO} | 6 | | V |
| I _C | 2 | | A |
| I _B | 1 | | A |
| P _C | 20(Tc=25°C) | | W |
| T _j | 150 | | °C |
| T _{stg} | -55 to +150 | | °C |

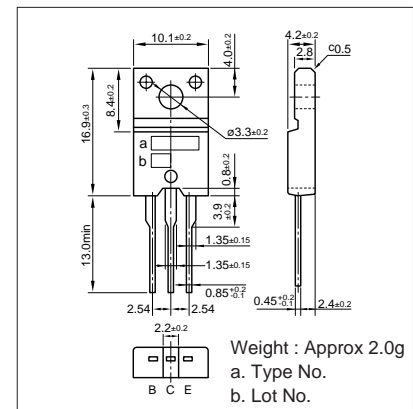
Electrical Characteristics (Ta=25°C)

| Symbol | Conditions | 2SC4883 | 2SC4883A | Unit |
|----------------------|---------------------------------------------|---------|----------|------|
| I _{CBO} | V _{CB} = | 150 | 180 | μA |
| I _{EBO} | V _{EB} =6V | 10max | | μA |
| V _{(BR)CEO} | I _C =10mA | 150min | 180min | V |
| h _{FE} | V _{CE} =10V, I _C =0.7A | 60to240 | | |
| V _{CE(sat)} | I _C =0.7A, I _B =70mA | 1.0max | | V |
| f _T | V _{CE} =12V, I _E =-0.7A | 120typ | | MHz |
| C _{OB} | V _{CB} =10V, f=1MHz | 30typ | | pF |

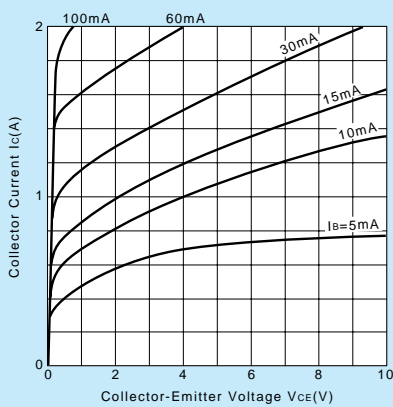
Typical Switching Characteristics (Common Emitter)

| V _{CC} (V) | R _L (Ω) | I _C (A) | V _{BB1} (V) | V _{BB2} (V) | I _{B1} (mA) | I _{B2} (mA) | t _{on} (μs) | t _{stg} (μs) | t _f (μs) |
|---------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|---------------------|
| 20 | 20 | 1 | 10 | -5 | 100 | -100 | 0.5typ | 1.5typ | 0.5typ |

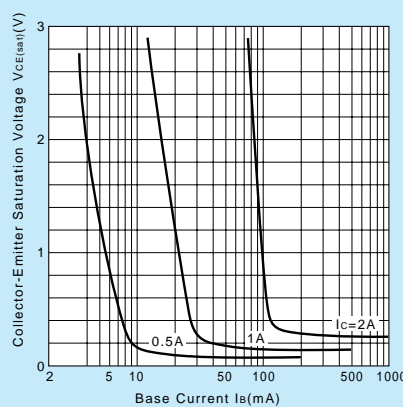
External Dimensions FM20(TO220F)



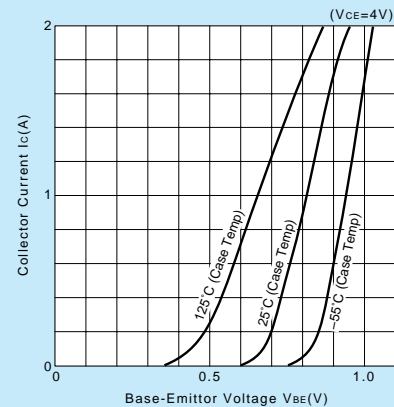
I_C-V_{CE} Characteristics (Typical)



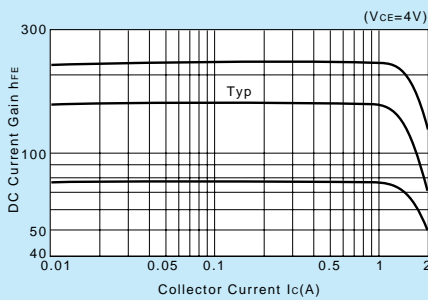
V_{CE(sat)}-I_B Characteristics (Typical)



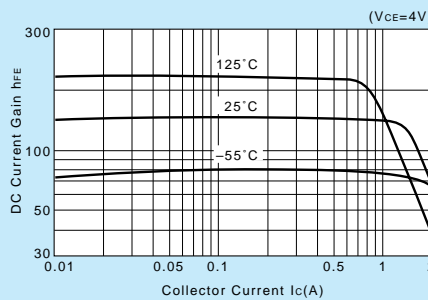
I_C-V_{BE} Temperature Characteristics (Typical)



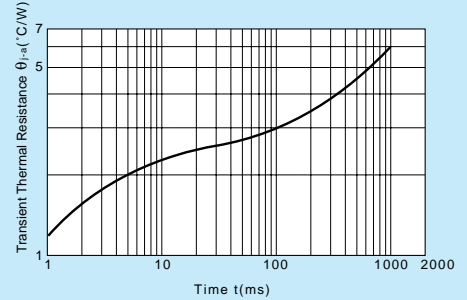
h_{FE}-I_C Characteristics (Typical)



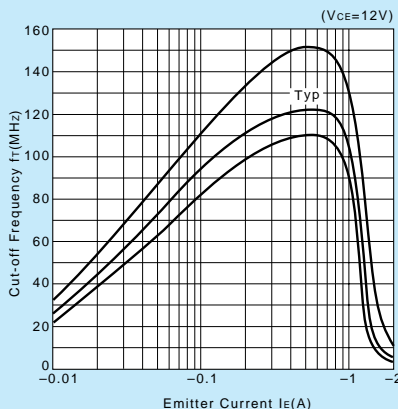
h_{FE}-I_C Temperature Characteristics (Typical)



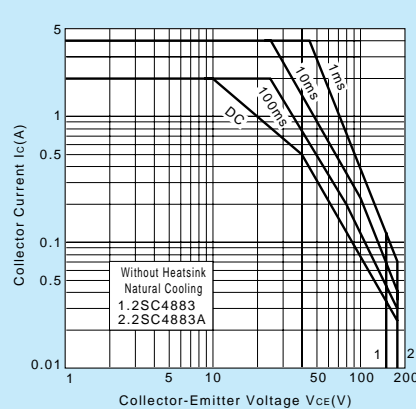
θ_{j-a}-t Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating

