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2SA1492

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC3856)

Application : Audio and General Purpose

■ Absolute maximum ratings (Ta=25°C)

| Symbol | Ratings | Unit |
|------------------|---------------------------|------|
| V _{CB0} | -180 | V |
| V _{CEO} | -180 | V |
| V _{EBO} | -6 | V |
| I _c | -15 | A |
| I _B | -4 | A |
| P _c | 130(T _C =25°C) | W |
| T _j | 150 | °C |
| T _{stg} | -55 to +150 | °C |

■ Electrical Characteristics (Ta=25°C)

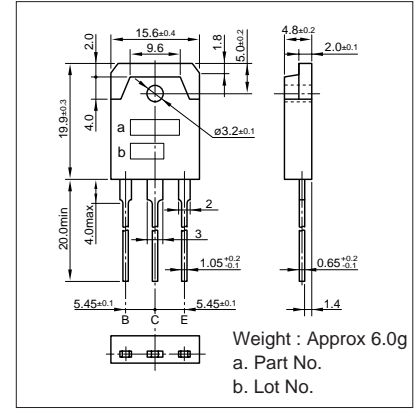
| Symbol | Conditions | Ratings | Unit |
|----------------------|---|---------|------|
| I _{CB0} | V _{CB} =-180V | -100max | μA |
| I _{EBO} | V _{EB} =-6V | -100max | μA |
| V(BR)CEO | I _c =-50mA | -180min | V |
| h _{FE} | V _{CE} =-4V, I _c =-3A | 50min* | |
| V _{CE(sat)} | I _c =-5A, I _B =-0.5A | -2.0max | V |
| f _T | V _{CE} =-12V, I _E =0.5A | 20typ | MHz |
| C _{OB} | V _{CB} =-10V, f=1MHz | 500typ | pF |

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

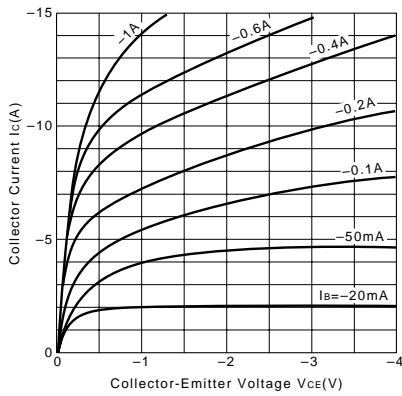
■ Typical Switching Characteristics (Common Emitter)

| V _{CC} (V) | R _L (Ω) | I _c (A) | V _{BB1} (V) | V _{BB2} (V) | I _{B1} (A) | I _{B2} (A) | t _{on} (μs) | t _{stg} (μs) | t _f (μs) |
|---------------------|--------------------|--------------------|----------------------|----------------------|---------------------|---------------------|----------------------|-----------------------|---------------------|
| -40 | 4 | -10 | -10 | 5 | -1 | 1 | 0.6typ | 0.9typ | 0.2typ |

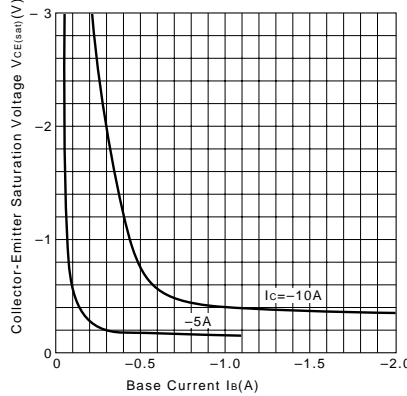
External Dimensions MT-100(TO3P)



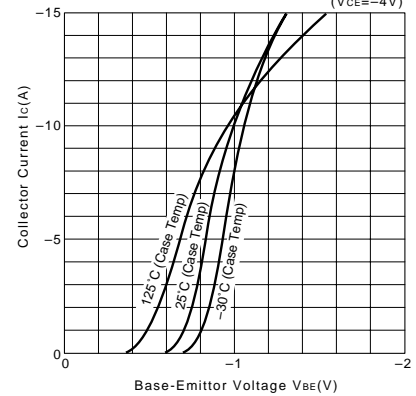
I_c-V_{CE} Characteristics (Typical)



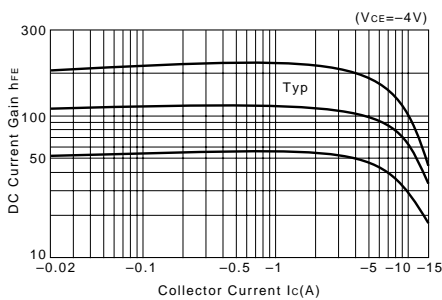
V_{CE(sat)}-I_B Characteristics (Typical)



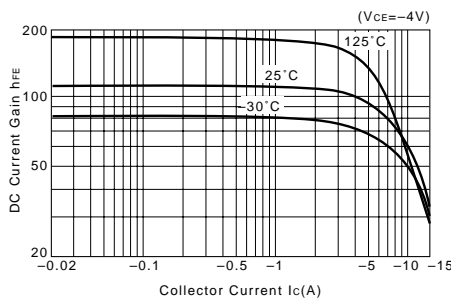
I_c-V_{BE} Temperature Characteristics (Typical)



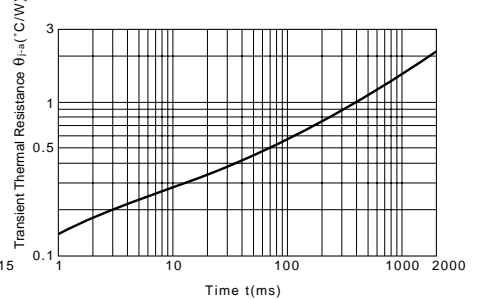
h_{FE}-I_c Characteristics (Typical)



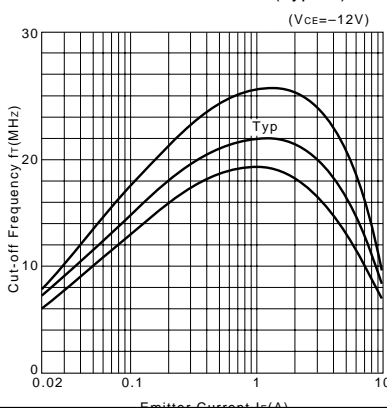
h_{FE}-I_c Temperature Characteristics (Typical)



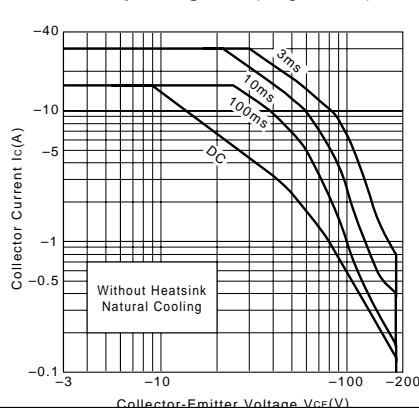
θ_{J-a}-t Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_c-T_a Derating

