

LAPT 2SA1386/1386A

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC3519/A)

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

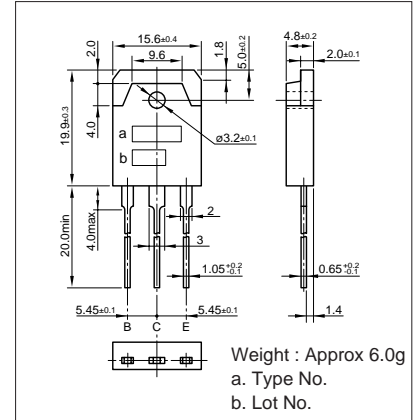
| Symbol | 2SA1386 | 2SA1386A | Unit |
|--------|--------------|----------|------|
| VcBo | -160 | -180 | V |
| VcEO | -160 | -180 | V |
| VEBo | -5 | | V |
| Ic | -15 | | A |
| Ib | -4 | | A |
| Pc | 130(Tc=25°C) | | W |
| Tj | 150 | | °C |
| Tstg | -55 to +150 | | °C |

Electrical Characteristics (Ta=25°C)

| Symbol | Conditions | 2SA1386 | 2SA1386A | Unit |
|----------|------------------|---------|----------|------|
| IcBo | VcB= | -100max | -100max | μA |
| VcEO | VcB= | -160 | -180 | V |
| IEBo | VEB=-5V | | -100max | μA |
| V(BR)CEO | Ic=-25mA | -160min | -180min | V |
| hFE | VCE=-4V, Ic=-5A | | 50min* | |
| VCE(sat) | Ic=-5A, Ib=-0.5A | | -2.0max | V |
| fT | VCE=-12V, IE=2A | | 40typ | MHz |
| COB | VcB=-10V, f=1MHz | | 500typ | pF |

*hFE Rank O(50 to 100), P(70 to 140), Y(90 to 180)

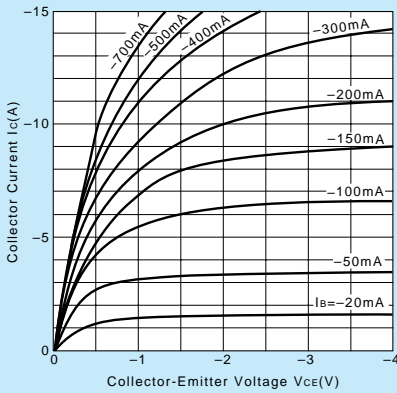
External Dimensions MT-100(TO3P)



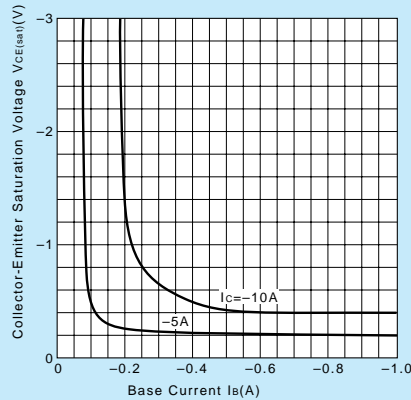
Typical Switching Characteristics (Common Emitter)

| VCC (V) | RL (Ω) | Ic (A) | VBB1 (V) | VBB2 (V) | IB1 (A) | IB2 (A) | ton (μs) | tstg (μs) | tf (μs) |
|---------|--------|--------|----------|----------|---------|---------|----------|-----------|---------|
| -40 | 4 | -10 | -10 | 5 | -1 | 1 | 0.3typ | 0.7typ | 0.2typ |

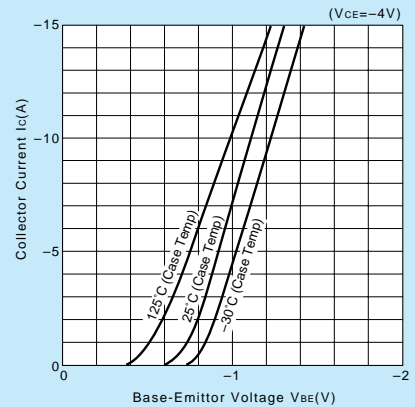
Ic-VCE Characteristics (Typical)



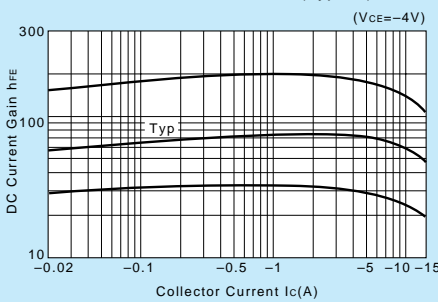
VCE(sat)-Ib Characteristics (Typical)



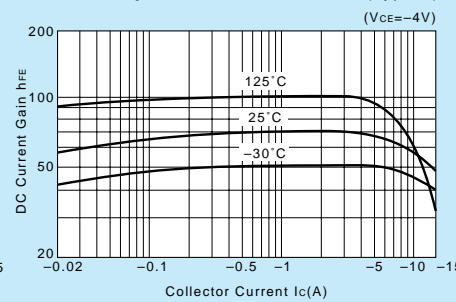
Ic-VBE Temperature Characteristics (Typical)



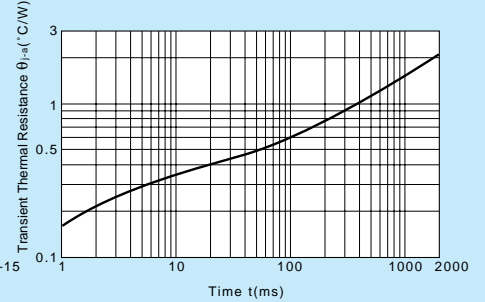
hFE-Ic Characteristics (Typical)



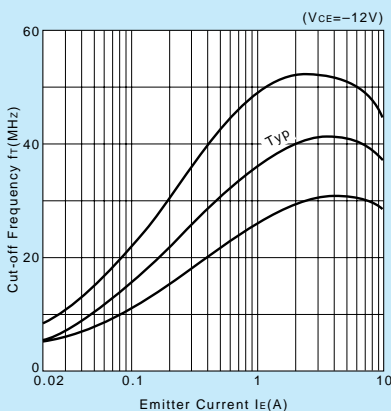
hFE-Ic Temperature Characteristics (Typical)



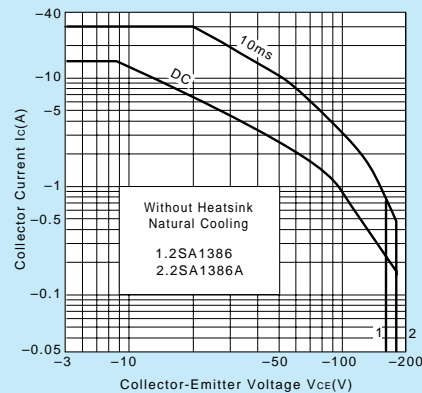
θj-a-t Characteristics



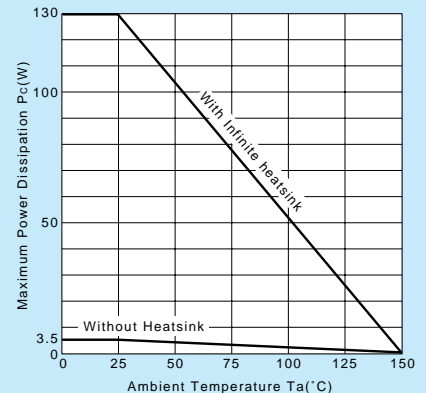
fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating



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