2SA1488/1488A

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC3851/A)

Application: Audio and General Purpose

External Dimensions FM20 (TO220F)

Absolute maximum ratings Symbol 2SA1488 2SA1488A Vсво -60 VCEO -60 -80 VEBO -6 Ic -4

25(Tc=25°C)

150

_55 to +150

Ιв

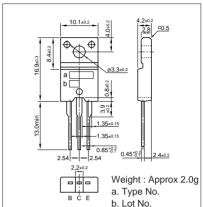
Po

Τi

Tstg

| | (Ta=25°C) | |
|---|-----------|--|
| | Unit | |
| | V | |
| | V | |
| | V | |
| | Α | |
| | А | |
| | W | |
| | °C | |
| Ī | 0.0 | |

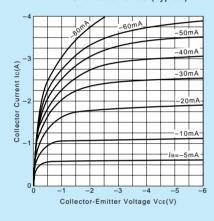
| Electrical Characteristics (Ta=25°C) | | | | | | | | | |
|--------------------------------------|------------------|-------------------|---------|----------|------|--|--|--|--|
| Symbol Cond | | ditions | 2SA1488 | 2SA1488A | Unit | | | | |
| ICBO | | | -100max | -100max | μΑ | | | | |
| 1000 | | Vcb= | -60 | -80 | V | | | | |
| ГЕВО | VEB=-6V | | -10 | μΑ | | | | | |
| V(BR)CEO | Ic=-25mA | | -60min | -80min | V | | | | |
| hfe | Vce=-4V, Ic=-1A | | 40min | | | | | | |
| Vce(sat) | Ic=-2A, IB=-0.2A | | -0.5max | | V | | | | |
| fт | Vce=-12 | Vce=-12V, IE=0.2A | | ōtyp | MHz | | | | |
| Сов | Vсв=-10 | V, f=1MHz | 90 | pF | | | | | |



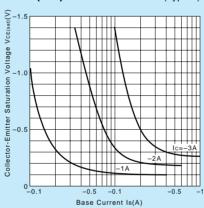
Typical Switching Characteristics (Common Emitter)

| Vcc | R _L | Ic | V _{BB1} (V) | VBB2 | I _{B1} | I _{B2} | ton | tstg | tf |
|-----|----------------|-----|----------------------|------|-----------------|-----------------|---------|---------|---------|
| (V) | (Ω) | (A) | | (V) | (mA) | (mA) | (µs) | (µs) | (µs) |
| -12 | 6 | -2 | -10 | 5 | -200 | 200 | 0.25typ | 0.75typ | 0.25typ |

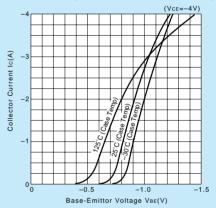
Ic-VcE Characteristics (Typical)



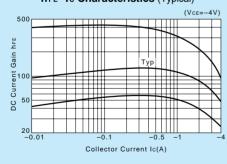
VcE(sat)-IB Characteristics (Typical)



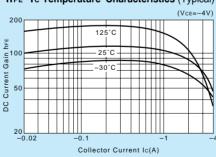
Ic-VBE Temperature Characteristics (Typical)



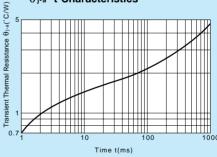
hfe-Ic Characteristics (Typical)



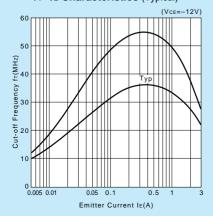
hfe-Ic Temperature Characteristics (Typical)



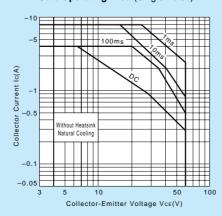
 θ_{j-a} -t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

