

2SA1488/1488A

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

Application : Audio and General Purpose

■ **Absolute maximum ratings** (Ta=25°C)

Symbol	2SA1488	2SA1488A	Unit
V _{CB0}	−60	−80	V
V _{CE0}	−60	−80	V
V _{EB0}	−6		V
I _C	−4		A
I _B	−1		A
P _C	25(T _C =25°C)		W
T _j	150		°C
T _{stg}	−55 to +150		°C

■ Electrical Characteristics

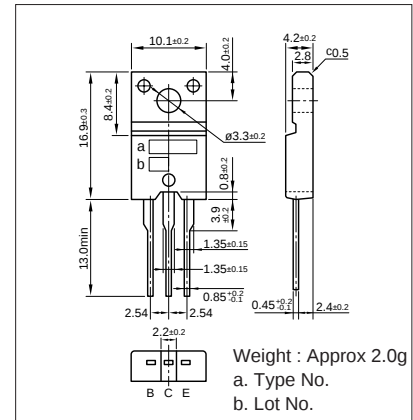
(Ta=25°C)

Symbol	Conditions	2SA1488	2SA1488A	Unit
I _{CBO}		−100max	−100max	μA
	V _{CB} =	−60	−80	V
I _{EBO}	V _{EB} =−6V	−100max		μA
V(BR)CEO	I _C =−25mA	−60min	−80min	V
h _{FE}	V _{CE} =−4V, I _C =−1A	40min		
V _{CE(sat)}	I _C =−2A, I _B =−0.2A	−0.5max		V
f _T	V _{CE} =−12V, I _E =0.2A	15typ		MHz
C _{OB}	V _{CB} =−10V, f=1MHz	90typ		pF

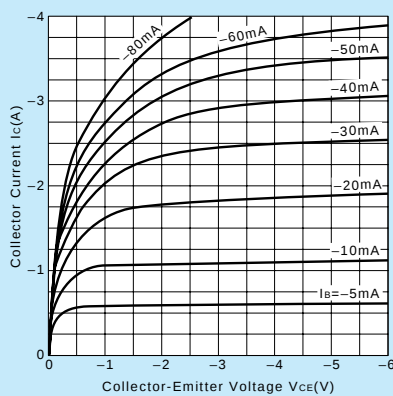
■ Typical Switching Characteristics (Common Emitter)

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)
-12	6	-2	-10	5	-200	200	0.25typ	0.75typ	0.25typ

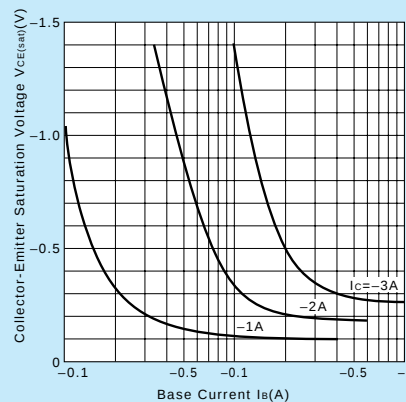
External Dimensions FM20 (TO220F)



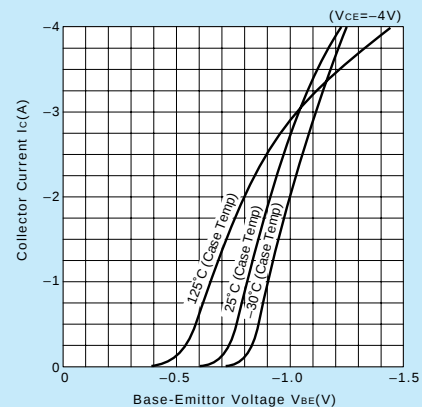
I_C-V_{CE} Characteristics (Typical)



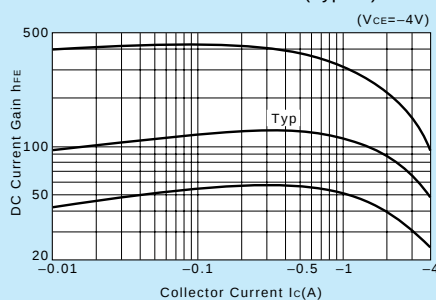
V_{CE(sat)}-I_B Characteristics (Typical)



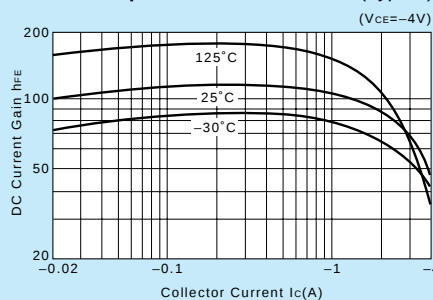
I_C-V_{BE} Temperature Characteristics (Typical)



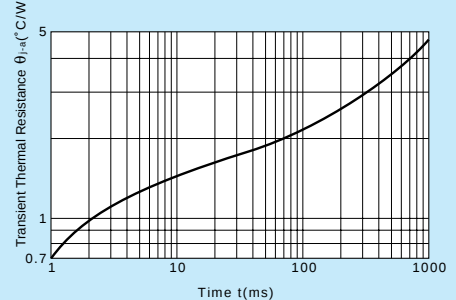
$h_{FE}-I_C$ Characteristics (Typical)



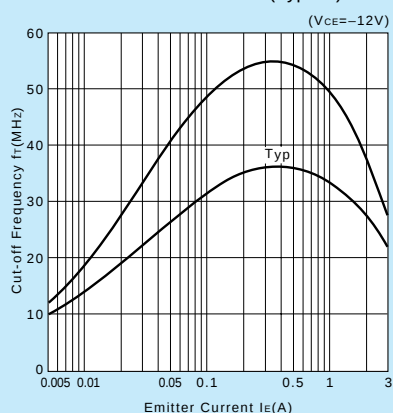
$h_{FE}-I_C$ Temperature Characteristics (Typical)



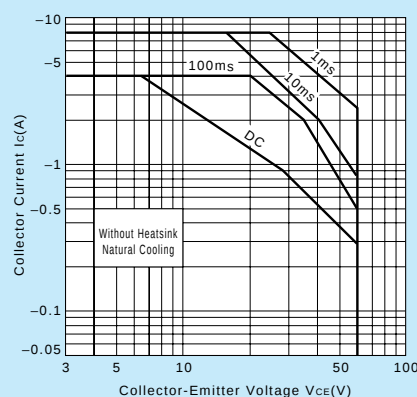
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

