



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2SA1488/1488A

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

Application : Audio and General Purpose

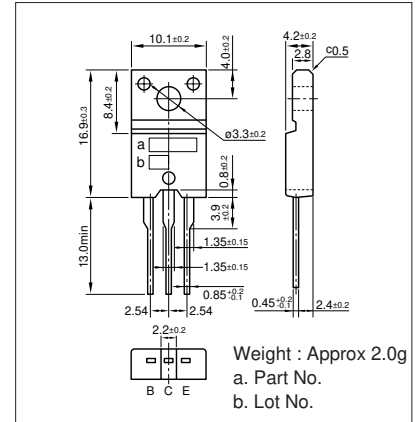
■ Absolute maximum ratings (Ta=25°C)

Symbol	Ratings		Unit
	2SA1488	2SA1488A	
V _{CBO}	-60	-80	V
V _{CEO}	-60	-80	V
V _{EBO}	-6		V
I _c	-4		A
I _b	-1		A
P _c	25(Tc=25°C)		W
T _j	150		°C
T _{stg}	-55 to +150		°C

■ Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings		Unit
		2SA1488	2SA1488A	
I _{CBO}	V _{CB} =	-100max	-100max	μA
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

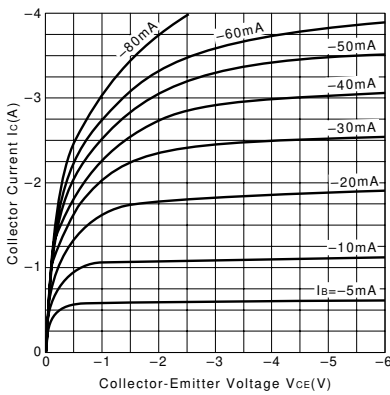
External Dimensions FM20 (TO220F)



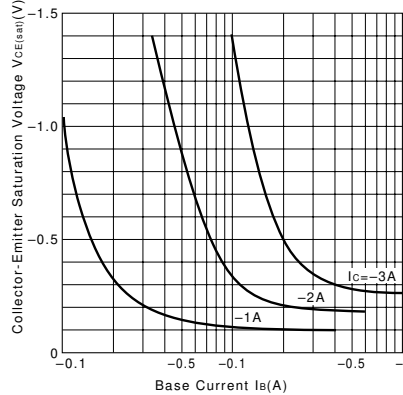
■ Typical Switching Characteristics (Common Emitter)

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

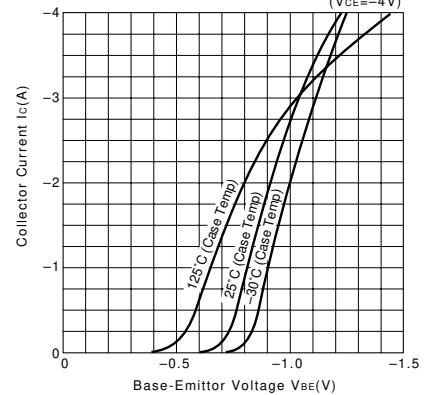
I_c-V_{CE} Characteristics (Typical)



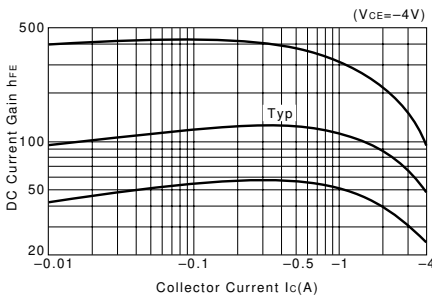
V_{CE(sat)}-I_b Characteristics (Typical)



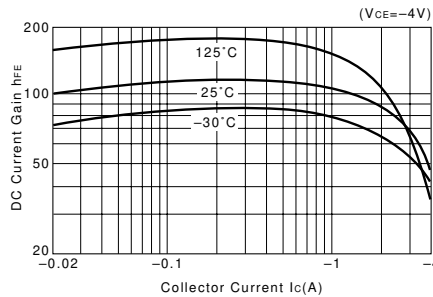
I_c-V_{BE} Temperature Characteristics (Typical)



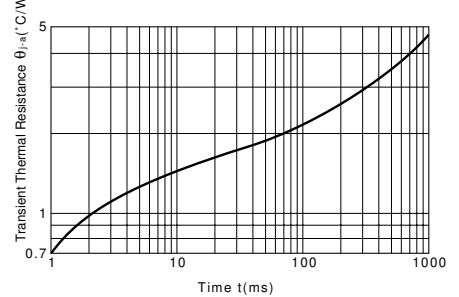
h_{FE}-I_c Characteristics (Typical)



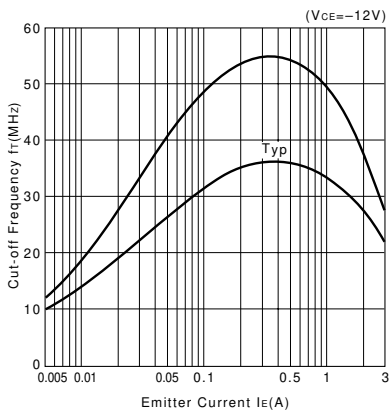
h_{FE}-I_c Temperature Characteristics (Typical)



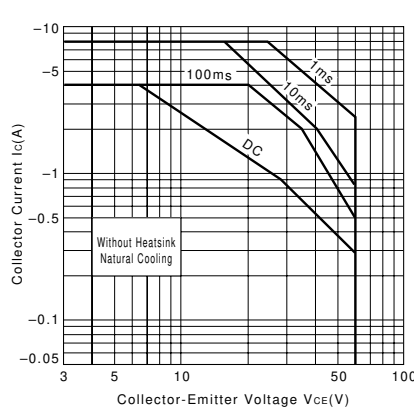
θ_{J-a}-t Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_c-T_a Derating

