

Power Transistor 2SA1488/1488A

Absolute Maximum Ratings (Ta=25°C)

Symbol	Ratings		Unit
	2SA1488	2SA1488A	
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

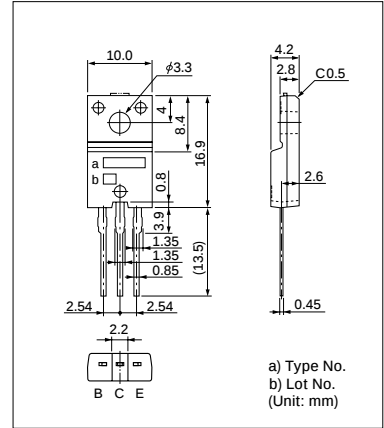
Electrical Characteristics (Ta = 25°C)

Symbol	Test Conditions	Ratings		Unit
		2SA1488	2SA1488A	
I _{CB0}	V _{CB} =	-100max	-100max	μA
I _{EB0}	V _{EB} = -6V	-60	-80	V
V _{(BR)CE0}	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

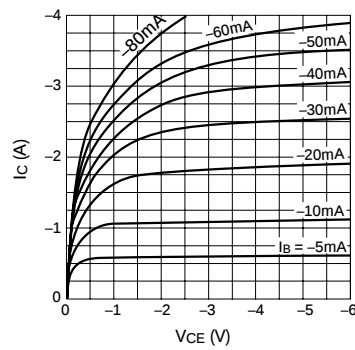
Typical Switching Characteristics (common emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BE1} (V)	V _{BE2} (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

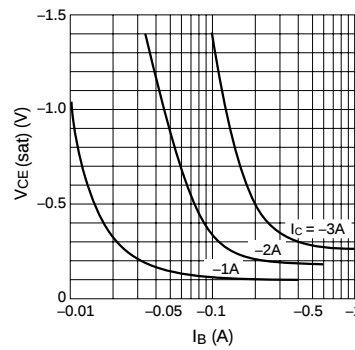
External Dimensions FM20 (full-mold)



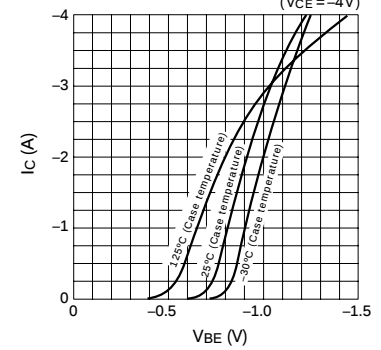
I_C—V_{CE} Characteristics (typ.)



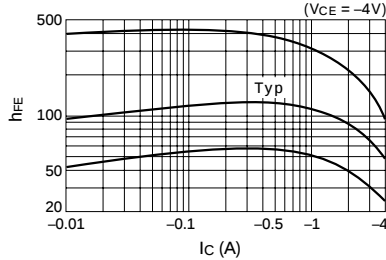
V_{CE(sat)}—I_B Characteristics (typ.)



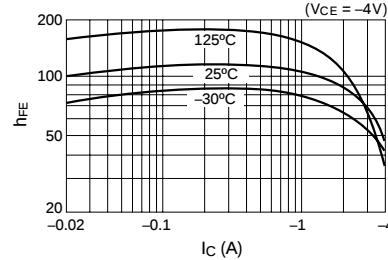
I_C—V_{BE} Temperature Characteristics (typ.) (V_{CE} = -4V)



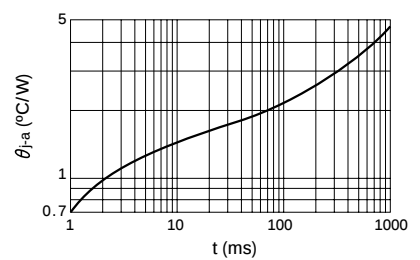
h_{FE}—I_C Characteristics (typ.) (V_{CE} = -4V)



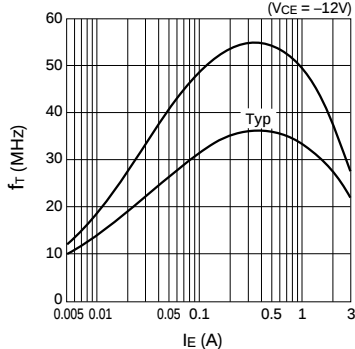
h_{FE}—I_C Temperature Characteristics (typ.) (V_{CE} = -4V)



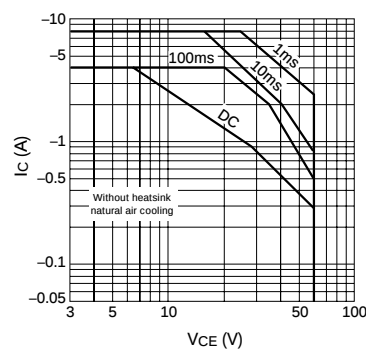
θ_{JA}—t Characteristics



f_T—I_E Characteristics (typ.) (V_{CE} = -12V)



Safe Operating Area (single pulse)



P_C—T_a Derating

