

2SA1490

Silicon PNP Epitaxial Planar Transistor

☆ Complement to type 2SC3854

Application Example :
Audio and General Purpose

● Outline Drawing 2.....MT-100(TO3P)

Absolute Maximum Ratings (T_a=25°C)

Symbol	2SA1490	Unit
V _{CB0}	-120	V
V _{CEO}	-120	V
V _{EB0}	-6	V
I _c	-8	A
I _B	-3	A
P _C	80 (T _C = 25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

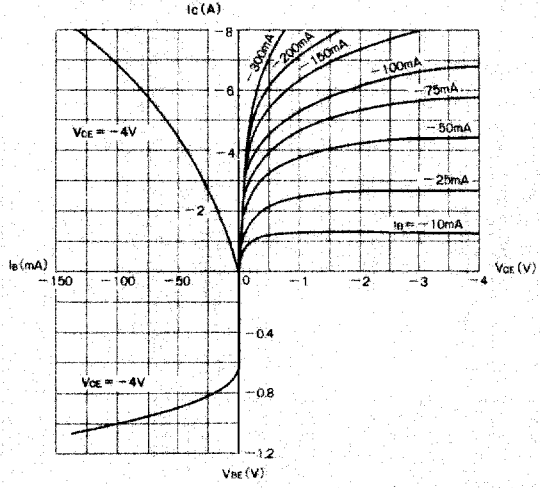
Electrical Characteristics (T_a=25°C)

Symbol	Conditions	2SA1490	Unit
I _{CB0}	V _{CB} =-120V	-100max	μA
I _{EB0}	V _{EB} =-6V	-100max	μA
V _{BRICE0}	I _C = -50mA	-120min	V
h _{FE}	V _{CE} =-4V, I _C =-3A	50min	
V _{CE(sat)}	I _C = -3A, I _B =-0.3A	-1.5max	V
f _T	V _{CE} =-12V, I _E =0.5A	20typ	MHz

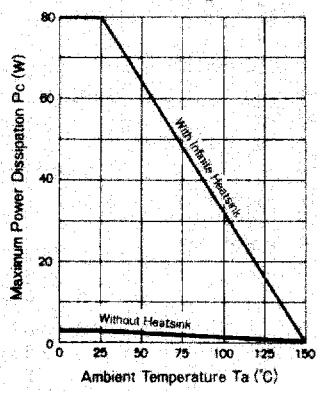
Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	I _{B2} (A)	t _{on} (μs)	t _{stg} (μs)	t _r (μs)
-40	10	-4	-10	5	-0.4	0.4	0.25typ	0.7typ	0.2typ

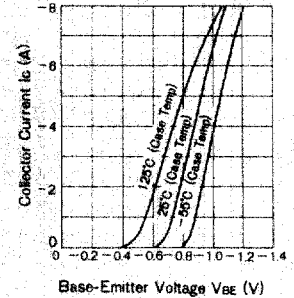
Common Emitter Characteristics (Typical)



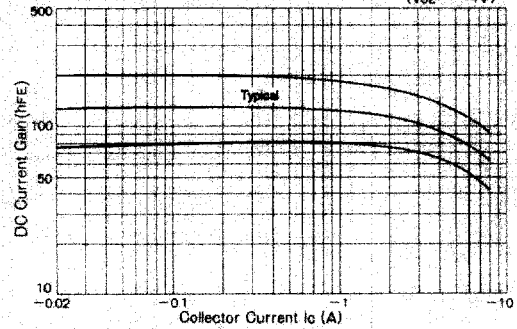
Pc-Ta Derating



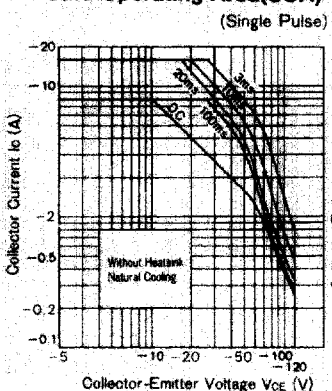
Ic-Vbe Temperature Characteristics (Typical) (V_{CE}=-4V)



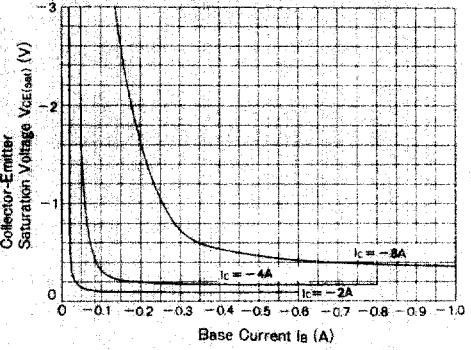
hFE-Ic Characteristics (V_{CE} = -4V)



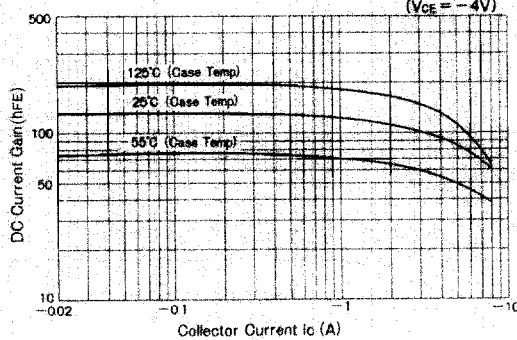
Safe Operating Area(SOA) (Single Pulse)



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



hFE-Ic Temperature Characteristics (Typical) (V_{CE} = -4V)



θ_{JA}-t Characteristics

