

2SA1695

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC4468)

Application : Audio and General Purpose

Absolute maximum ratings (T_a=25°C)

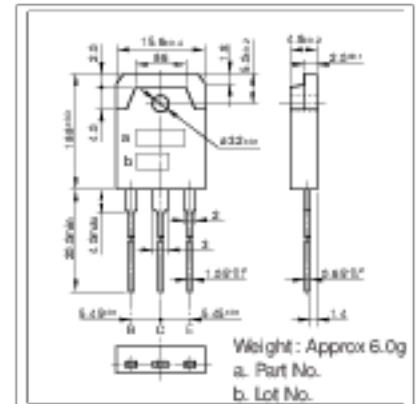
Symbol	Rating	Unit
V _{CEO}	-140	V
V _{CSO}	-140	V
V _{CE0}	-6	V
I _C	-10	A
I _B	-4	A
P _C	100(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (T_a=25°C)

Symbol	Conditions	Rating	Unit
I _{CEO}	V _{CE} =-140V	-10max	μA
I _{CSO}	V _{CS} =-6V	-10max	μA
V _{BE(sat)}	I _C =-50mA	-140min	V
h _{FE}	V _{CE} =-4V, I _C =-5A	50min	
V _{CE(sat)}	I _C =-5A, I _B =-0.5A	-0.5max	V
f _T	V _{CE} =-12V, I _C =0.5A	20typ	MHz
C _{ob}	V _{CE} =-10V, f=1MHz	400typ	pF

h_{FE} Rank: Q(50 to 100), P(70 to 140), Y(90 to 180)

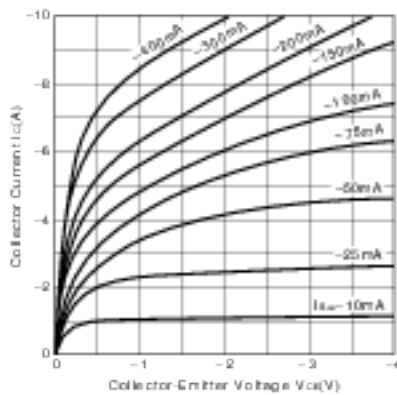
External Dimensions MT-100(TO3P)



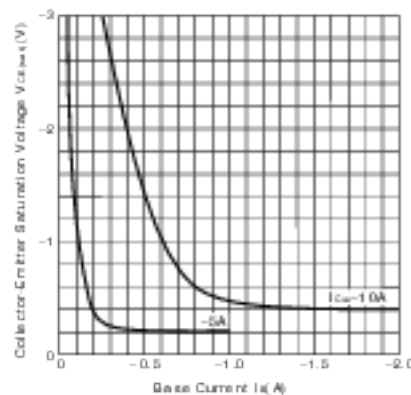
Typical Switching Characteristics (Common Emitter)

V _{CE} (V)	R _L (Ω)	I _C (A)	V _{CE1} (V)	V _{CE2} (V)	I _{B1} (A)	I _{B2} (A)	t _{on} (μs)	t _{off} (μs)	t _f (μs)
-60	12	-5	-90	5	-0.5	0.5	0.17typ	1.86typ	0.27typ

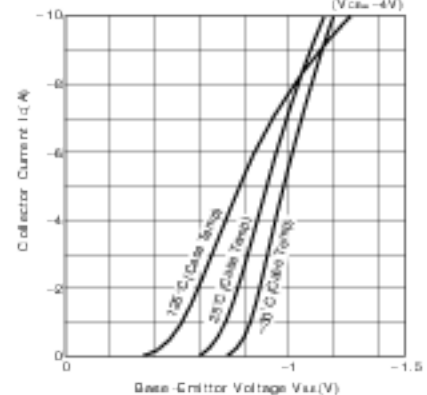
I_C-V_{CE} Characteristics (Typical)



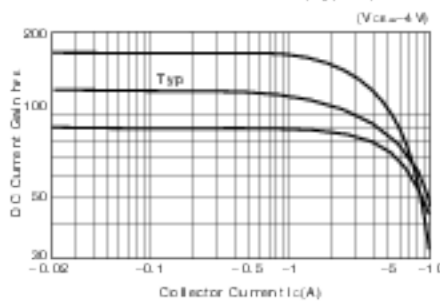
V_{CE(sat)}-I_B Characteristics (Typical)



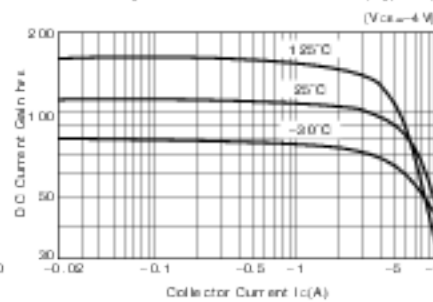
I_C-V_{BE} Temperature Characteristics (Typical)



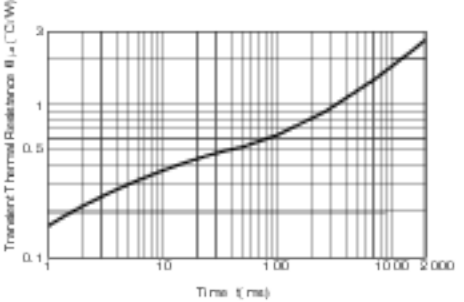
h_{FE}-I_C Characteristics (Typical)



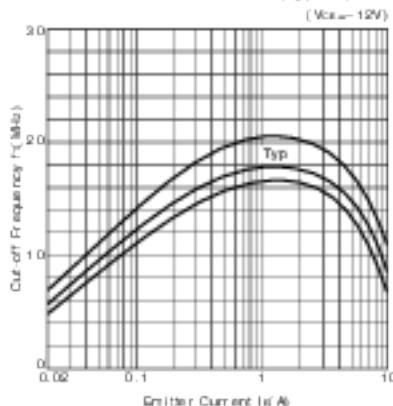
h_{FE}-I_C Temperature Characteristics (Typical)



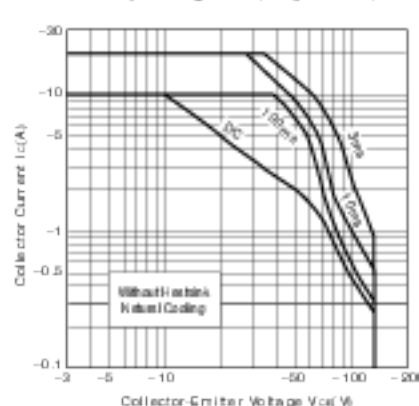
θ_J-t Characteristics



f_T-I_C Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating

