

2SA1693

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC4466)

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

Symbol	2SA1693	Unit
V _{CB0}	-80	V
V _{CEO}	-80	V
V _{EB0}	-6	V
I _C	-6	A
I _B	-3	A
P _C	60(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

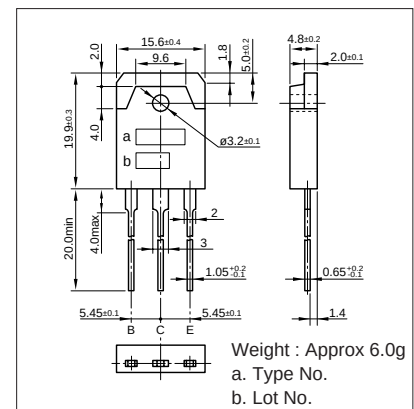
Symbol	Conditions	2SA1693	Unit
I _{CBO}	V _{CB} =-80V	-10max	μA
I _{EBO}	V _{EB} =-6V	-10max	μA
V _{(BR)CEO}	I _C =-50mA	-80min	V
h _{FE}	V _{CE} =-4V, I _C =-2A	50min*	
V _{CE(sat)}	I _C =-2A, I _B =-0.2A	-1.5max	V
f _r	V _{CE} =-12V, I _E =0.5A	20typ	MHz
COB	V _{CB} =-10V, f=1MHz	150typ	pF

*h_{FE} Rank O(50to100), P(70to140), Y(90to180)

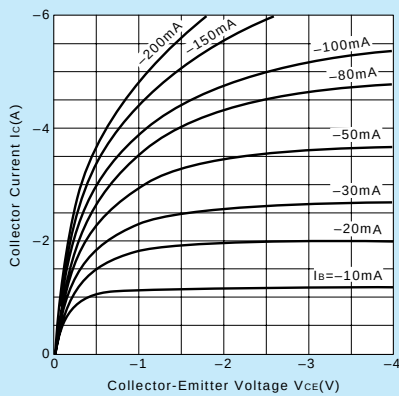
Typical Switching Characteristics (Common Emitter)

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 _f (μs)
-30	10	-3	-10	5	-0.3	0.3	0.18typ	1.10typ	0.21typ

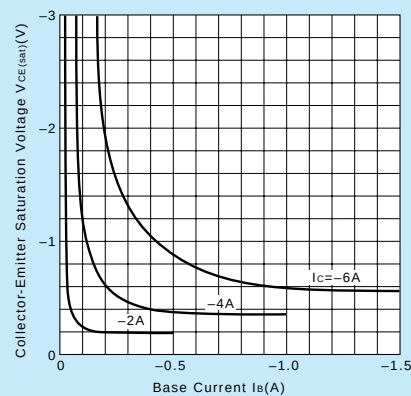
External Dimensions MT-100(TO3P)



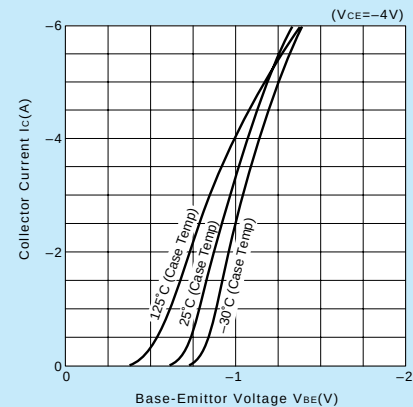
I_C-V_{CE} Characteristics (Typical)



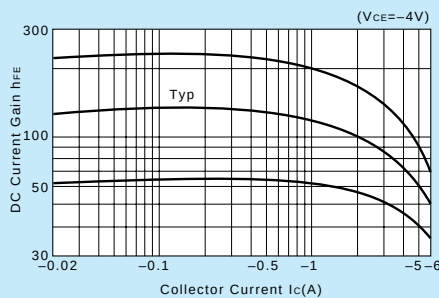
V_{CE(sat)}-I_B Characteristics (Typical)



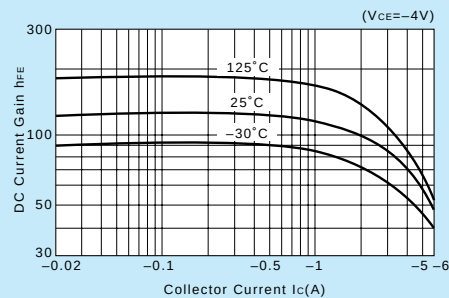
I_C-V_{BE} Temperature Characteristics (Typical)



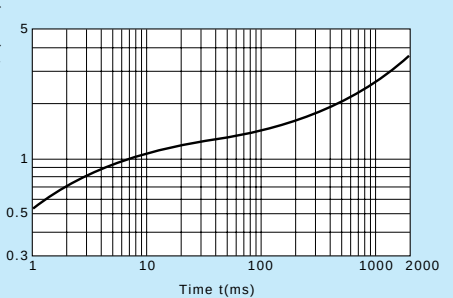
h_{FE}-I_C Characteristics (Typical)



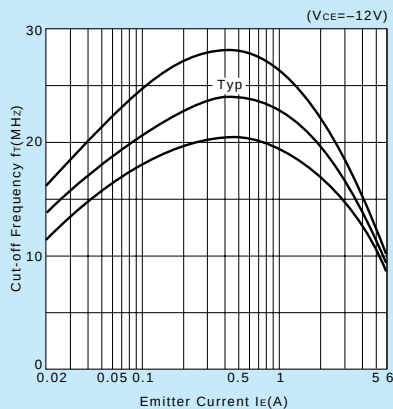
h_{FE}-I_C Temperature Characteristics (Typical)



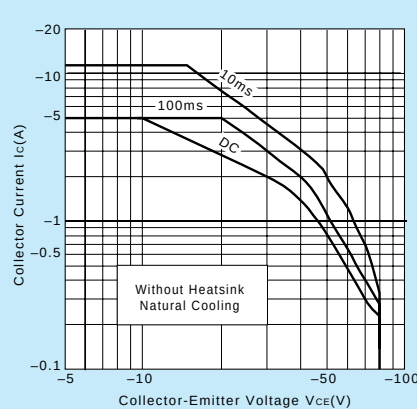
θ_{j-a}-t Characteristics



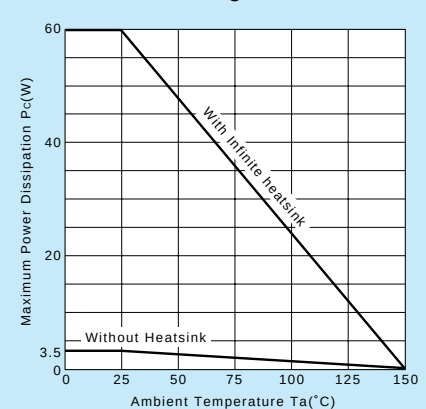
f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating



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