

2SA1694

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC4467)

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

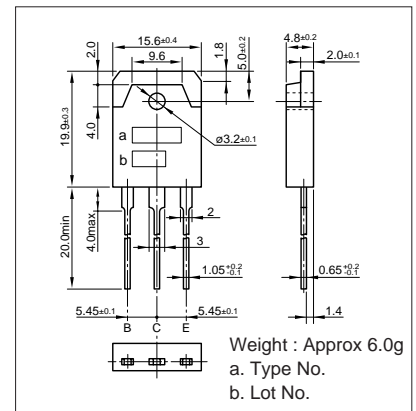
Symbol	2SA1694	Unit
VcBO	-120	V
VcEO	-120	V
VEBO	-6	V
Ic	-8	A
IB	-3	A
Pc	80(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SA1694	Unit
ICBO	VcB=-120V	-10max	μA
IEBO	VEB=-6V	-10max	μA
V(BR)CEO	Ic=-50mA	-120min	V
hFE	VcE=-4V, Ic=-3A	50min*	
VcE(sat)	Ic=-3A, IB=-0.3A	-1.5max	V
fr	VcE=-12V, IE=0.5A	20typ	MHz
COB	VcB=-10V, f=1MHz	300typ	pF

*hFE Rank \bar{O} (50 to 100), P(70 to 140), Y(90 to 180)

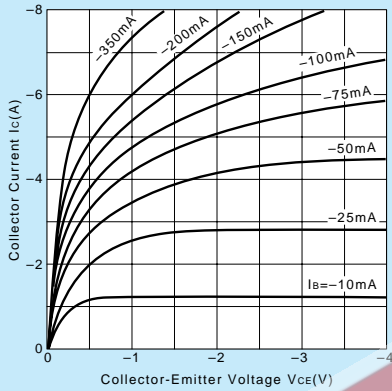
External Dimensions MT-100(TO3P)



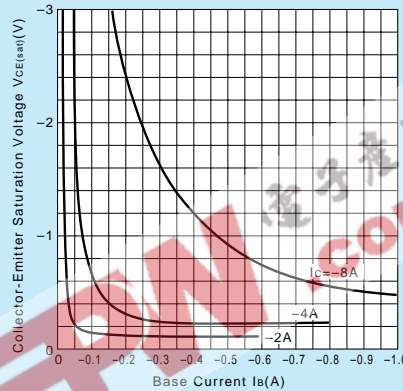
Typical Switching Characteristics (Common Emitter)

Vcc (V)	RL (Ω)	Ic (A)	VBB1 (V)	VBB2 (V)	IB1 (A)	IB2 (A)	ton (μs)	tstg (μs)	tf (μs)
-40	10	-4	-10	5	-0.4	0.4	0.14typ	1.40typ	0.21typ

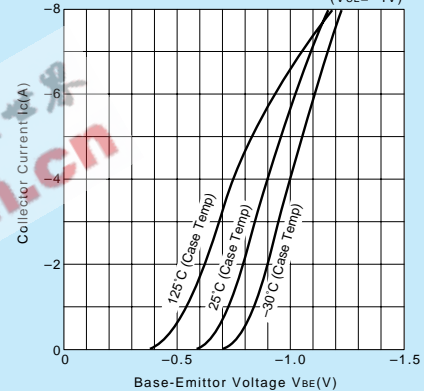
Ic-VcE Characteristics (Typical)



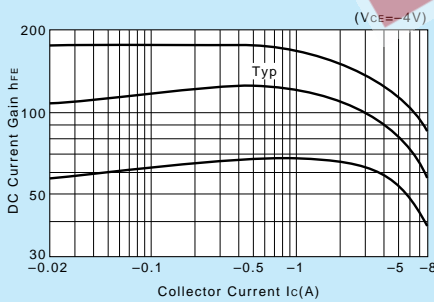
VcE(sat)-Ib Characteristics (Typical)



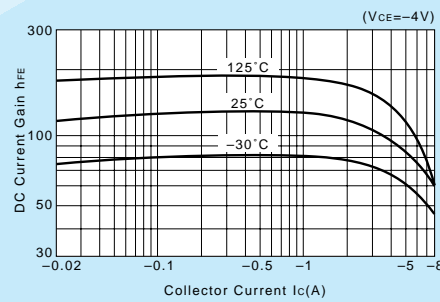
Ic-VBE Temperature Characteristics (Typical)



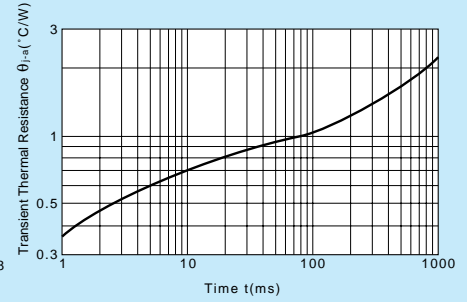
hFE-Ic Characteristics (Typical)



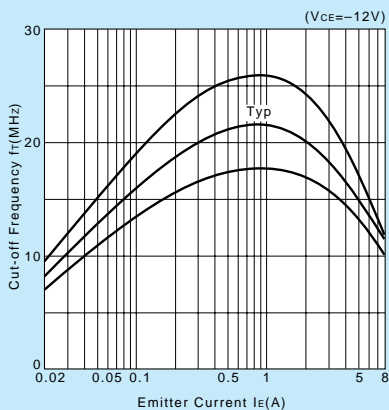
hFE-Ic Temperature Characteristics (Typical)



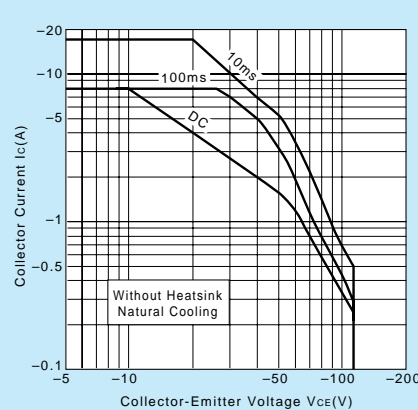
θj-a-t Characteristics



fr-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

