2SA1694

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

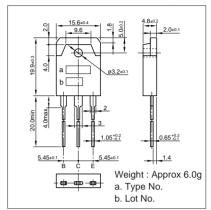
Application: Audio and General Purpose

Absolute maximum ratings (Ta=25°C						
Symbol	2SA1694	Unit				
Vсво	-120	V				
VCEO	-120	V				
VEBO	-6	V				
Ic	-8	А				
Ів	-3	А				
Pc	80(Tc=25°C)	W				
Tj	150	°C				
Tstg	-55 to +150	°C				

Electrical C	haracteristics	(Ta=25°C)					
Symbol	Conditions	2SA1694	Unit				
Ісво	Vcb=-120V	-10max	μΑ				
І ЕВО	VEB=-6V	-10max	μΑ				
V(BR)CEO	Ic=-50mA	-120min	V				
hfe	Vce=-4V, Ic=-3A	50min*					
Vce(sat)	Ic=-3A, IB=-0.3A	-1.5max	V				
fT	Vce=-12V, Ie=0.5A	20typ	MHz				
Сов	VcB=-10V, f=1MHz	300typ	pF				
_							

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

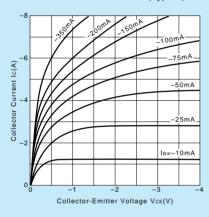
External Dimensions MT-100(TO3P)



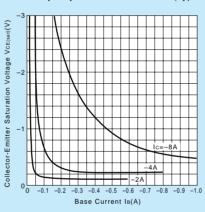
■Typical Switching Characteristics (Common Emitter)

Vcc (V)	RL (Ω)	Ic (A)	V _{BB1} (V)	V _{BB2} (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

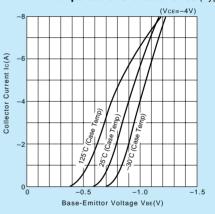




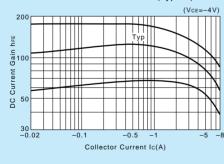
VcE(sat)-IB Characteristics (Typical)



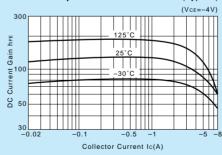
Ic-VBE Temperature Characteristics (Typical)



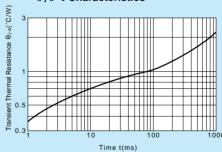
hfe-Ic Characteristics (Typical)



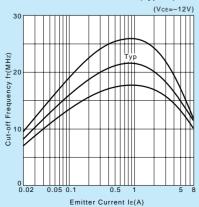
hfe-Ic Temperature Characteristics (Typical)



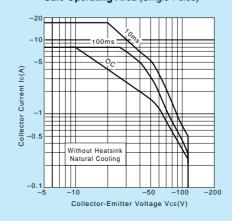
 θ_{j-a} -t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

