2SA1693

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

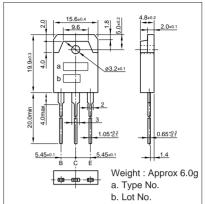
Application: Audio and General Purpose

Absolute maximum ratings (Ta=25°C)						
Symbol	2SA1693	Unit				
Vсво	-80	V				
VCEO	-80	V				
VEBO	-6	V				
Ic	-6	А				
Ів	-3	А				
Pc	60(Tc=25°C)	W				
Tj	150	°C				
Tstg	-55 to +150	°C				

Electrical Cl	haracteristics	(Ta=25°C)					
Symbol	Conditions	2SA1693	Unit				
Ісво	Vcb=-80V	-10max	μΑ				
Гево	VEB=-6V	-10max	μΑ				
V(BR)CEO	Ic=-50mA	-80min	V				
hfe	Vce=-4V, Ic=-2A	50min*					
Vce(sat)	Ic=-2A, IB=-0.2A	-1.5max	V				
fT	Vce=-12V, Ie=0.5A	20typ	MHz				
Сов	VcB=-10V, f=1MHz	150typ	pF				

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

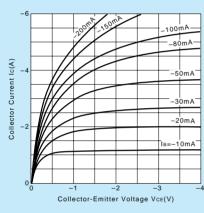
External Dimensions MT-100(TO3P)



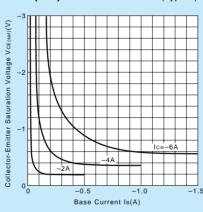
Typical Switching Characteristics (Common Emitter)

Vcc (V)	R _L (Ω)	Ic (A)	V _{BB1} (V)	VBB2 (V)	I _{B1} (A)	I _{B2} (A)	ton (µs)	tstg (µs)	tf (µs)
-30	10	-3	-10	5	-0.3	0.3	0.18typ	1.10typ	0.21typ

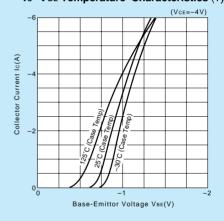




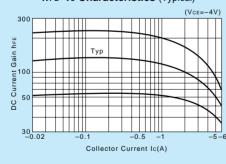
VcE(sat)-IB Characteristics (Typical)



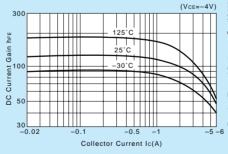
Ic-VBE Temperature Characteristics (Typical)



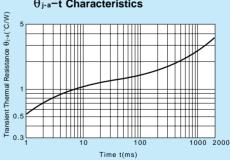
hfe-Ic Characteristics (Typical)



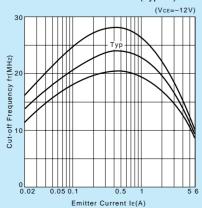
hfe-Ic Temperature Characteristics (Typical)



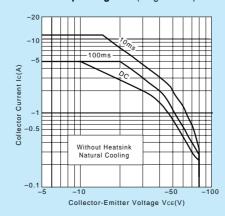
 θ_{j-a} -t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

