# imall

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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# **2SA1908**

### Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC5100)

### Application : Audio and General Purpose

#### Absolute maximum ratings (Ta=25°C) Ratings Unit Symbol Vсво -120 V -120 V VCEO Vево -6 V lc -8 А lв -3 Α Pc 75(Tc=25°C) W Tj 150 °C Tstg –55 to +150 °C

Electrical C	haracteristics	(Ta=25°C)							
Symbol	Conditions Ratings		Unit						
Ісво	Vcb=-120V	-10max	μA						
Іево	VEB=-6V	-10max	μA V						
V(BR)CEO	Ic=-50mA	—120min							
hfe	VCE=-4V, IC=-3A	50min*							
VCE(sat)	Ic=-3A, IB=-0.3A	-0.5max	V						
fт	VCE=-12V, IE=0.5A	20typ	MHz						
Сов	VCB=-10V, f=1MHz	300typ	pF						
where $Parts = O(E0 to 100) P(70 to 140) V(00 to 100)$									

\*hFE Rank 0(50 to 100), P(70 to 140), Y(90 to 180)

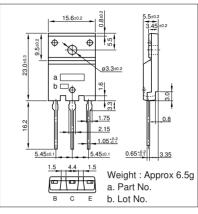
#### Typical Switching Characteristics (Common Emitter)

	Vcc (V)	RL (Ω)	Ic (A)	VBB1 (V)	VBB2 (V)	IB1 (A)	Iв2 (А)	ton (µs)	tstg (μs)	tf (µs)
	-40	10	-4	-10	5	-0.4	0.4	0.14typ	1.40typ	0.21typ

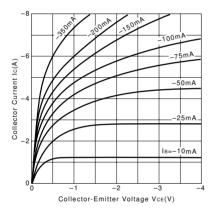
DO

30 \_0.02

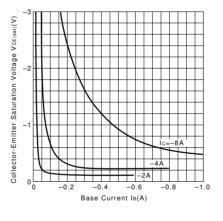
External Dimensions FM100(TO3PF)



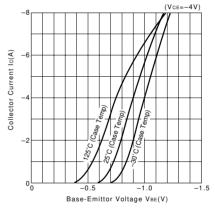


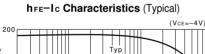


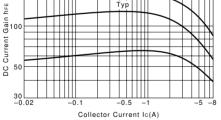
#### Vce(sat)-IB Characteristics (Typical)



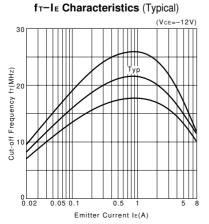
#### IC-VBE Temperature Characteristics (Typical)

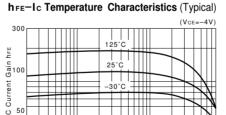




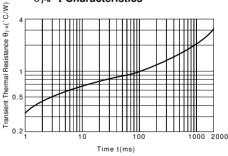


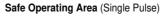






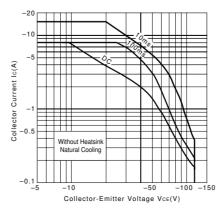
## θ<sub>j-a</sub>-t Characteristics





-0.5

Collector Current Ic(A)



#### Pc-Ta Derating

