# 2SA1725

# Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC4511)

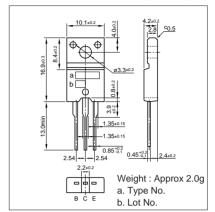
### **Application :** Audio and General Purpose

Absolute maximum ratings (Ta=25°C)						
Symbol	2SA1725		Unit			
Vсво	-80		V			
VCEO	-80		V			
VEBO	-6		V			
Ic	-6		А			
lB	-3		А			
Pc	30(Tc=25°C)		W			
Tj	150		°C			
Tstg	-55 to +150		°C			

Electrical C	haracteristics	(Ta=25°C)					
Symbol	Conditions	2SA1725	Unit				
Ісво	Vcb=-80V	-10max	μΑ				
<b>І</b> ЕВО	VEB=-6V	-10max	μΑ				
V(BR)CEO	Ic=-25mA	-80min	V				
hfe	Vce=-4V, Ic=-2A	50min*					
Vce(sat)	Ic=-2A, IB=-0.2A	-0.5max	V				
fт	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)

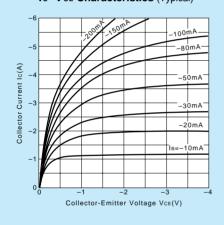
# External Dimensions FM20(TO220F)



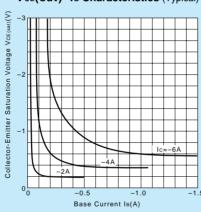
### ■Typical Switching Characteristics (Common Emitter)

Vcc	Rι	Ic	VBB1	VBB2	IB1	I <sub>B2</sub> (A)	ton	tstg	tf
(V)	(Ω)	(A)	(V)	(V)	(A)		(µs)	(µs)	(µs)
-30	10	-3	-10	5	-0.3	0.3	0.18typ	1.10typ	0.21typ

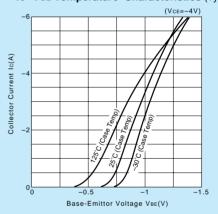




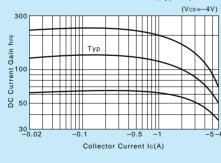




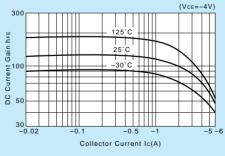
Ic-VBE Temperature Characteristics (Typical)



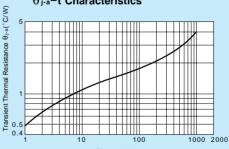
hfe-Ic Characteristics (Typical)



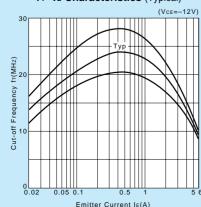
hfe-Ic Temperature Characteristics (Typical)



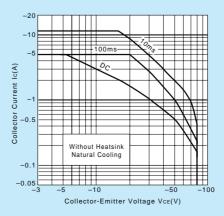
 $\theta_{j-a}$ -t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

