

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC3519/A)

Application : Audio and General Purpose

■ Absolute maximum ratings (Ta=25°C)

Symbol	Ratings		Unit
	2SA1386	2SA1386A	
V _{CB0}	-160	-180	V
V _{CE0}	-160	-180	V
V _{EB0}	-5		V
I _C	-15		A
I _B	-4		A
P _C	130(T _C =25°C)		W
T _j	150		°C
T _{stg}	-55 to +150		°C

■ Electrical Characteristics (Ta=25°C)

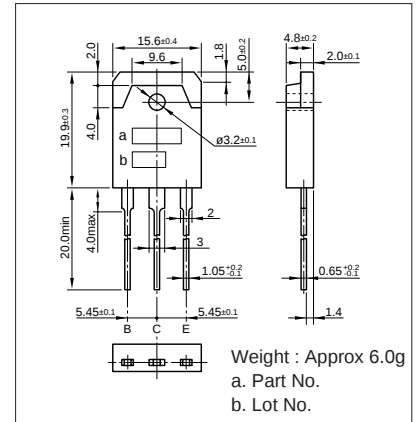
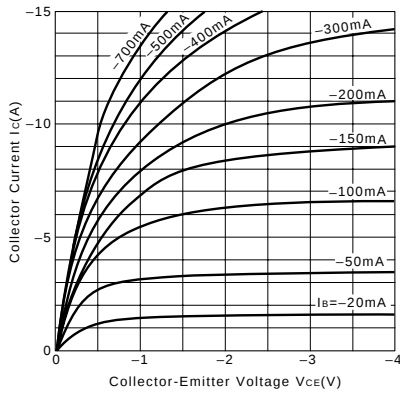
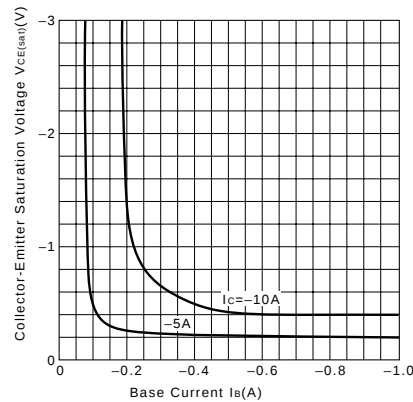
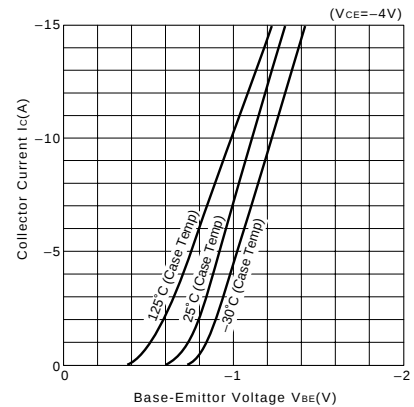
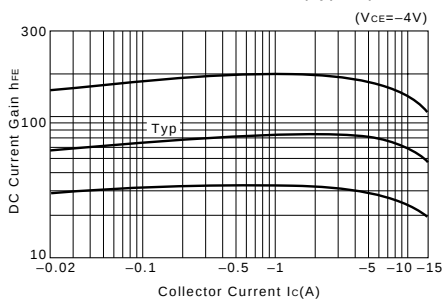
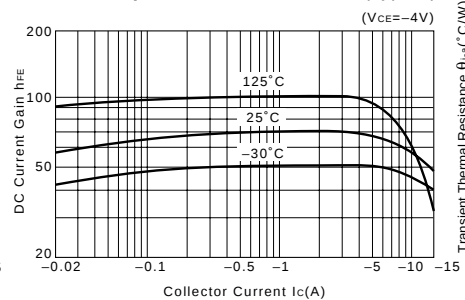
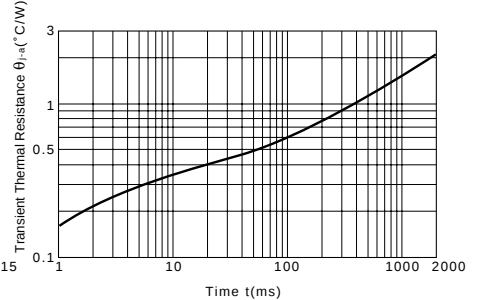
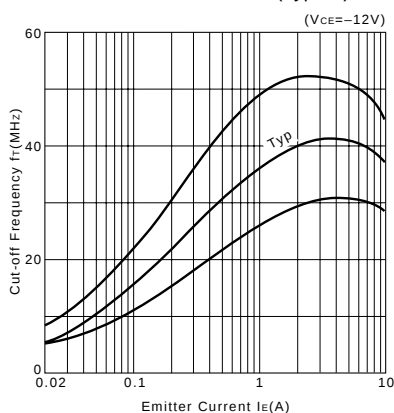
Symbol	Conditions	Ratings		Unit
		2SA1386	2SA1386A	
I _{CB0}	V _{CB} =	-100max	-100max	μA
I _{EB0}	V _{EB} =-5V	-160	-180	V
V _{(BR)CEO}	I _C =-25mA	-160min	-180min	V
h _{FE}	V _{CE} =-4V, I _C =-5A	50min*		
V _{CE(sat)}	I _C =-5A, I _B =-0.5A	-2.0max		V
f _T	V _{CE} =-12V, I _E =2A	40typ		MHz
C _{OB}	V _{CB} =-10V, f=1MHz	500typ		pF

*h_{FE} Rank O(50 to 100), P(70 to 140), Y(90 to 180)

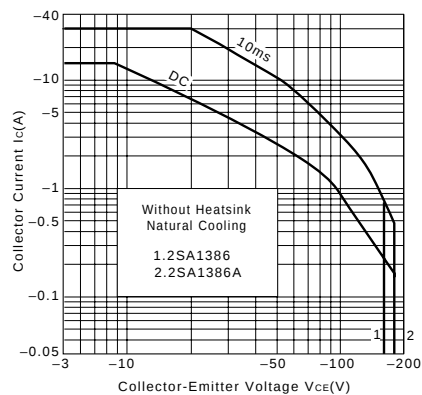
■ Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	I _{B2} (A)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
-40	4	-10	-10	5	-1	1	0.3typ	0.7typ	0.2typ

External Dimensions MT-100(TO3P)

I_C-V_{CE} Characteristics (Typical)V_{CE(sat)}-I_B Characteristics (Typical)I_C-V_{BE} Temperature Characteristics (Typical)h_{FE}-I_C Characteristics (Typical)h_{FE}-I_C Temperature Characteristics (Typical)θ_{JA}-t Characteristicsf_T-I_E Characteristics (Typical)

Safe Operating Area (Single Pulse)

P_C-T_a Derating