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Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1294)

Application : Audio and General Purpose

■ Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CB0}	230	V
V _{CEO}	230	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)

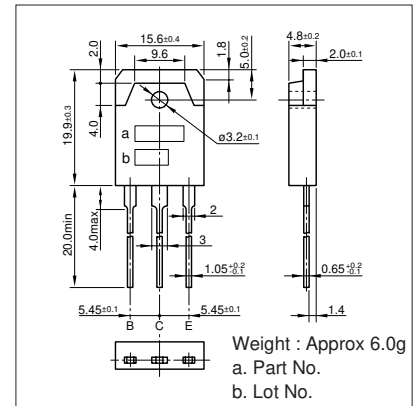
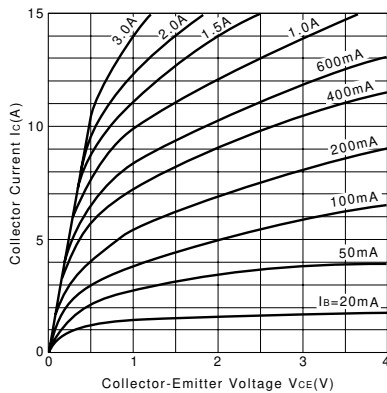
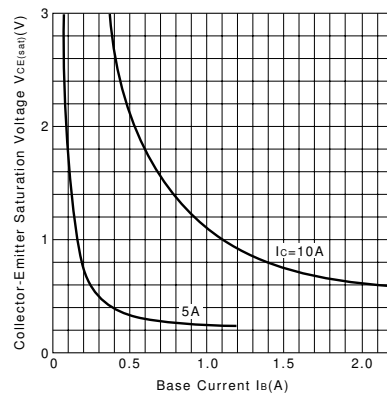
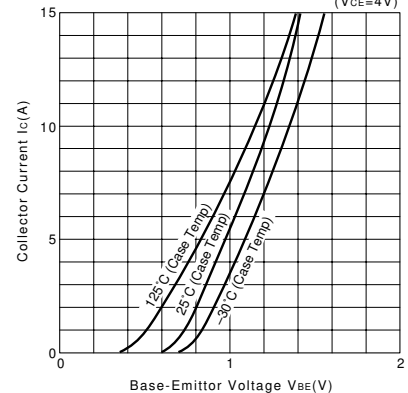
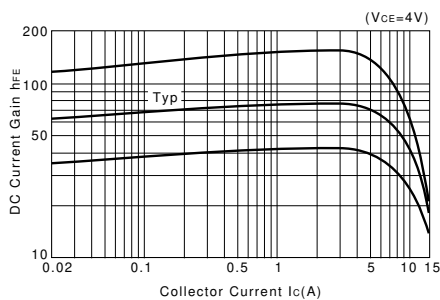
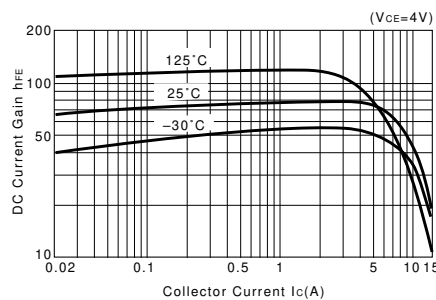
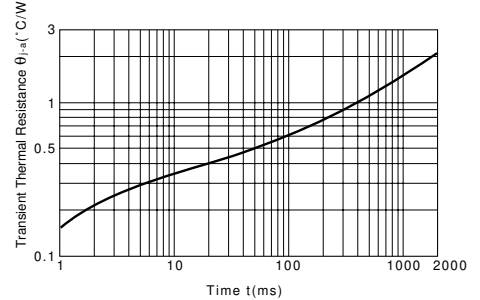
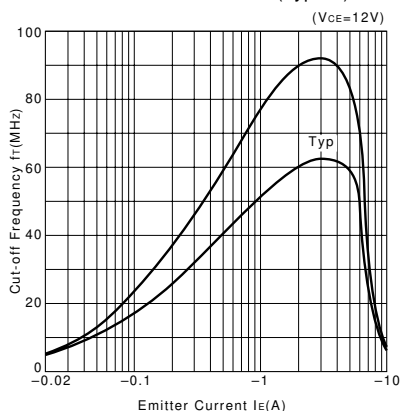
Symbol	Conditions	Ratings	Unit
I _{CBO}	V _{CB} =230V	100max	μA
I _{EBO}	V _{EB} =5V	100max	μA
V _{(BR)CEO}	I _C =25mA	230min	V
h _{FE}	V _{CE} =4V, I _C =5A	50min*	
V _{CE(sat)}	I _C =5A, I _B =0.5A	2.0max	V
f _r	V _{CE} =12V, I _E =-2A	60typ	MHz
COB	V _{CB} =10V, f=1MHz	250typ	pF

*h_{FE} Rank $\bar{O}$ (50 to 100), Y(70 to 140)

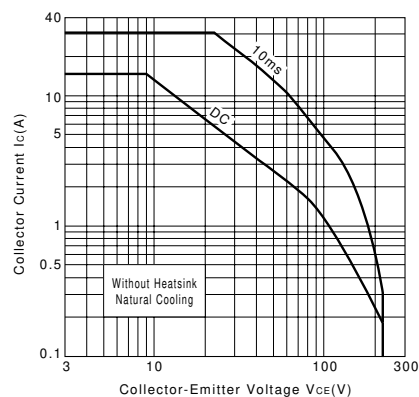
■ Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
60	12	5	10	-5	500	-500	0.30typ	2.40typ	0.50typ

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_{J-a}-t Characteristicsf_T-I_E Characteristics (Typical)

Safe Operating Area (Single Pulse)

P_C-T_a Derating