

LAPT

2SC4886

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1860)

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

Symbol	2SC4886	Unit
V _{CB0}	150	V
V _{CE0}	150	V
V _{EB0}	5	V
I _c	14	A
I _B	3	A
P _c	80(T _c =25°C)	W
T _j	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

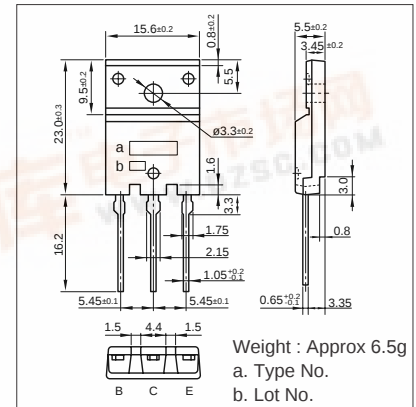
Symbol	Conditions	2SC4886	Unit
I _{CB0}	V _{CB} =150V	100max	μA
I _{EB0}	V _{EB} =5V	100max	μA
V _{(BR)CEO}	I _c =25mA	150min	V
h _{FE}	V _{CE} =4V, I _c =5A	50min*	
V _{CE(sat)}	I _c =5A, I _B =500mA	2.0max	V
f _r	V _{CE} =12V, I _E =-2A	60typ	MHz
COB	V _{CB} =10V, f=1MHz	200typ	pF

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

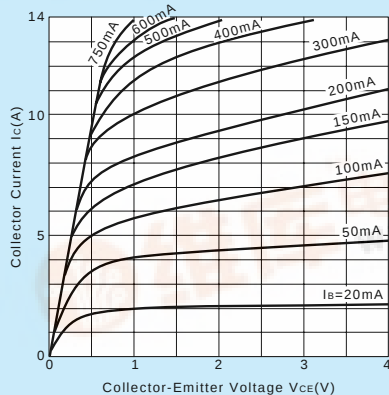
Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _c (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	I _{B2} (A)	ton (μs)	tstg (μs)	tf (μs)
60	12	5	10	-5	0.5	-0.5	0.26typ	1.5typ	0.35typ

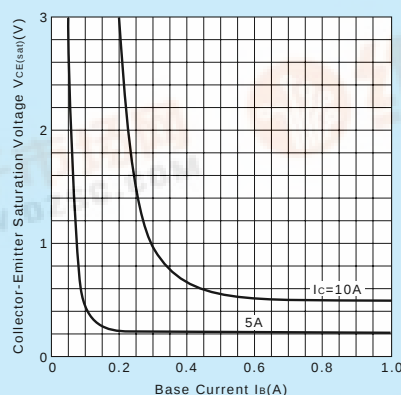
External Dimensions FM100(TO3PF)



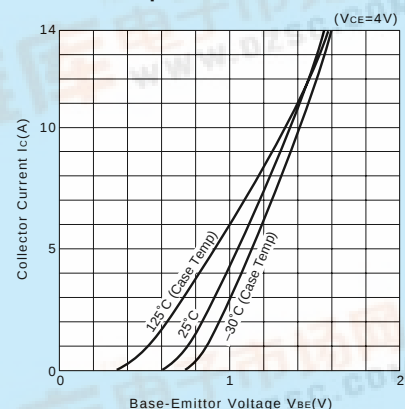
I_c-V_{CE} Characteristics (Typical)



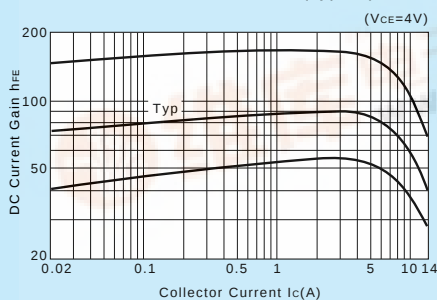
V_{CE(sat)}-I_B Characteristics (Typical)



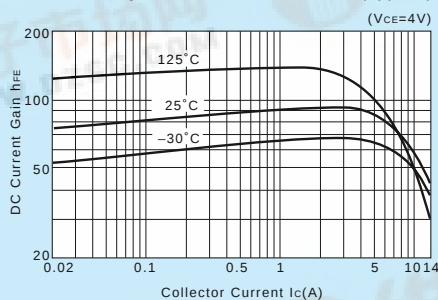
I_c-V_{BE} Temperature Characteristics (Typical)



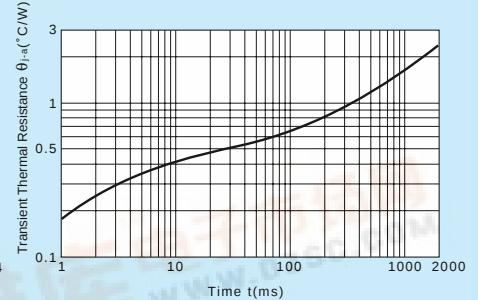
h_{FE}-I_c Characteristics (Typical)



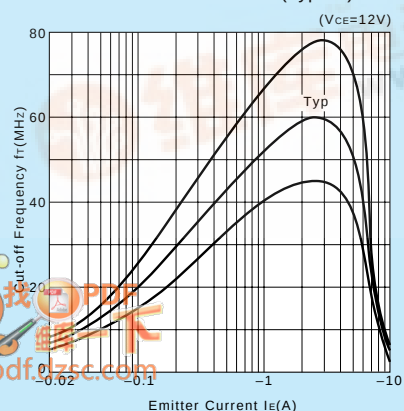
h_{FE}-I_c Temperature Characteristics (Typical)



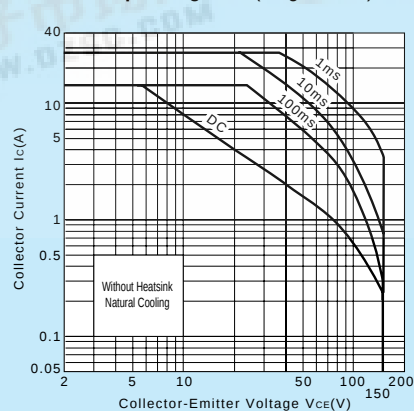
θ_{J-a}-t Characteristics



f_r-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_c-T_a Derating

