

LAPT

2SC4886

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

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

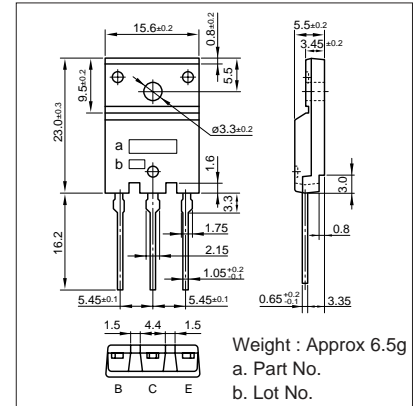
Symbol	Ratings	Unit
VcBO	150	V
VcEO	150	V
VEBO	5	V
Ic	14	A
IB	3	A
Pc	80(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	Unit
IcBO	VcB=150V	100max	μA
IEBO	VEB=5V	100max	μA
V(BR)CEO	Ic=25mA	150min	V
hFE	VCE=4V, Ic=5A	50min*	
VCE(sat)	Ic=5A, IB=500mA	2.0max	V
fr	VCE=12V, IE=-2A	60typ	MHz
COB	VcB=10V, f=1MHz	200typ	pF

*hFE Rank \bar{O} (50 to 100), P(70 to 140), Y(90 to 180)

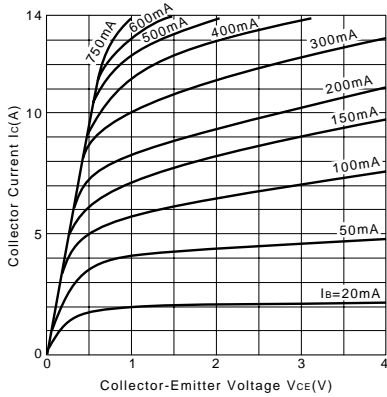
External Dimensions FM100(TO3PF)



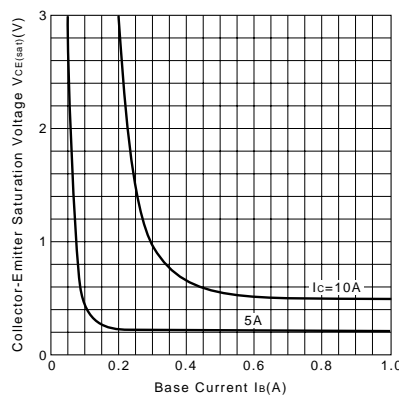
Typical Switching Characteristics (Common Emitter)

Vcc (V)	RL (Ω)	Ic (A)	VBB1 (V)	VBB2 (V)	IB1 (A)	IB2 (A)	ton (μs)	tstg (μs)	tf (μs)
60	12	5	10	-5	0.5	-0.5	0.26typ	1.5typ	0.35typ

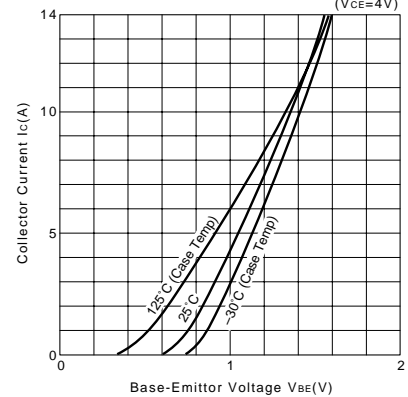
Ic-VCE Characteristics (Typical)



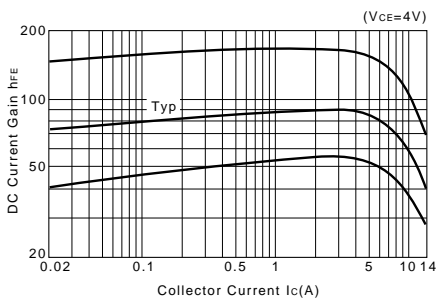
VCE(sat)-IB Characteristics (Typical)



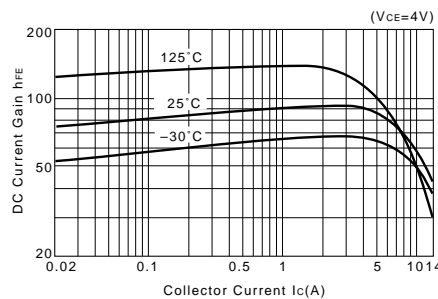
Ic-VBE Temperature Characteristics (Typical)



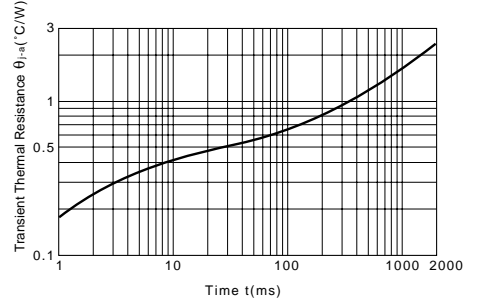
hFE-Ic Characteristics (Typical)



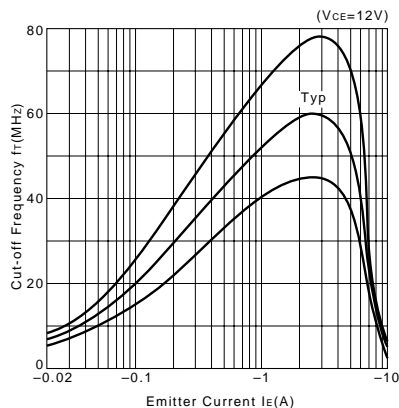
hFE-Ic Temperature Characteristics (Typical)



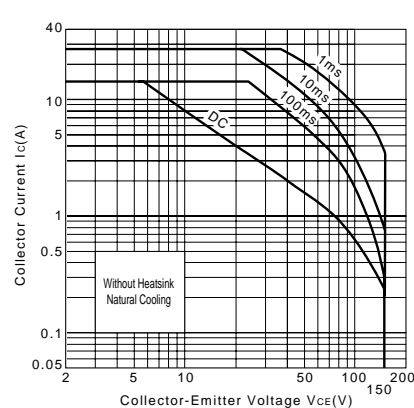
θj-a-t Characteristics



fr-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

