

2SA1673

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC4388)

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

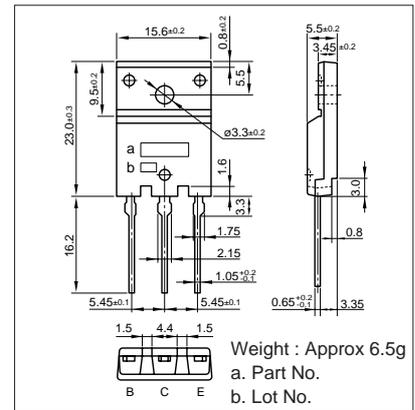
Symbol	Ratings	Unit
VcBO	-180	V
VCE0	-180	V
VEBO	-6	V
Ic	-15	A
IB	-4	A
Pc	85(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	Unit
ICBO	VcB=-180V	-10max	μA
IEBO	VEB=-6V	-10max	μA
V(BR)CEO	Ic=-50mA	-180min	V
hFE	VCE=-4V, Ic=-3A	50min*	
VCE(sat)	Ic=-5A, IB=-0.5A	-2.0max	V
fr	VCE=-12V, IE=0.5A	20typ	MHz
COB	VcB=-10V, f=1MHz	500typ	pF

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

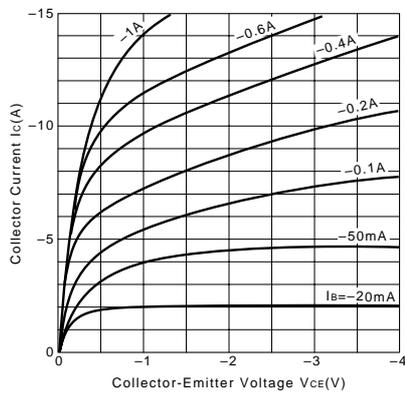
External Dimensions FM100(TO3PF)



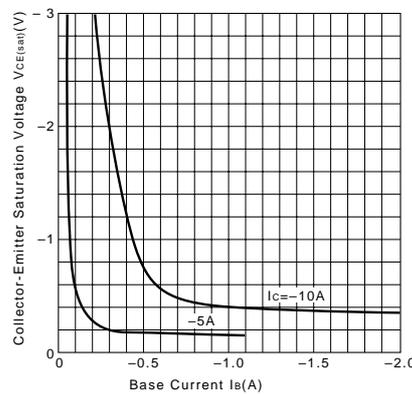
Typical Switching Characteristics (Common Emitter)

VCC (V)	RL (Ω)	Ic (A)	VBB1 (V)	VBB2 (V)	IB1 (A)	IB2 (A)	ton (μs)	tstg (μs)	tf (μs)
-40	4	-10	-10	5	-1	1	0.6typ	0.9typ	0.2typ

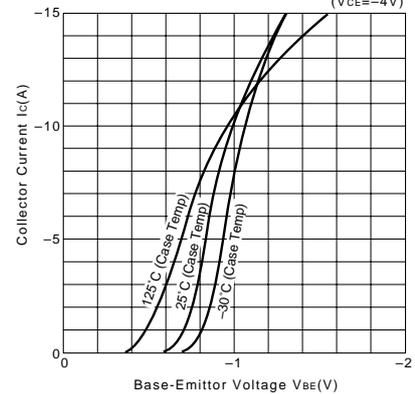
Ic-VCE Characteristics (Typical)



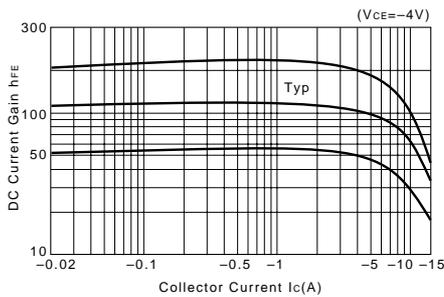
VCE(sat)-IB Characteristics (Typical)



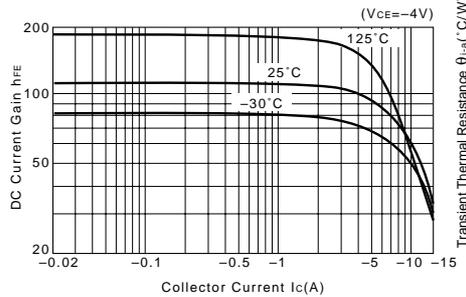
Ic-VBE Temperature Characteristics (Typical)



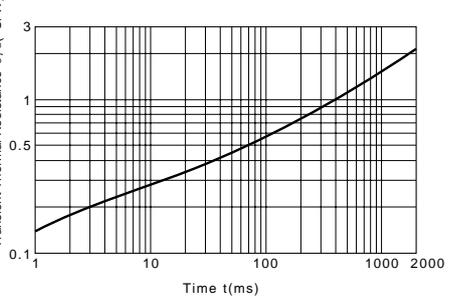
hFE-Ic Characteristics (Typical)



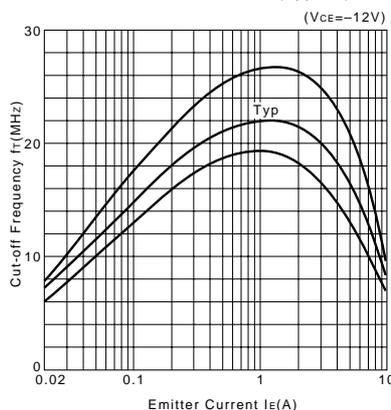
hFE-Ic Temperature Characteristics (Typical)



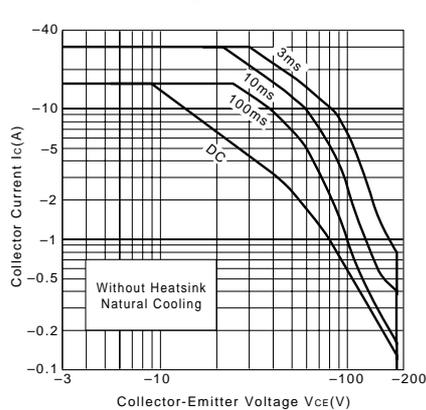
θja-t Characteristics



fr-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

