

2SA1673

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

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

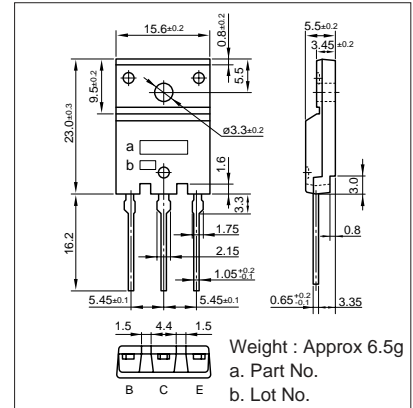
Symbol	Ratings	Unit
VcBO	-180	V
VcEO	-180	V
VEBO	-6	V
Ic	-15	A
Ib	-4	A
Pc	85(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

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 O(50 to 100), P(70 to 140), Y(90 to 180)

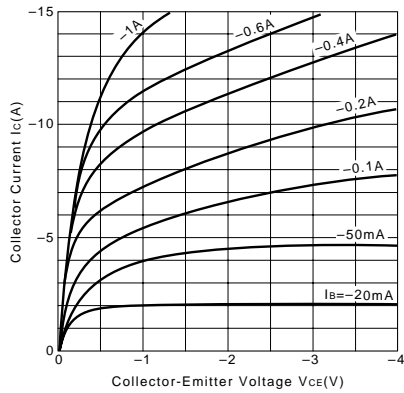
External Dimensions FM100(TO3PF)



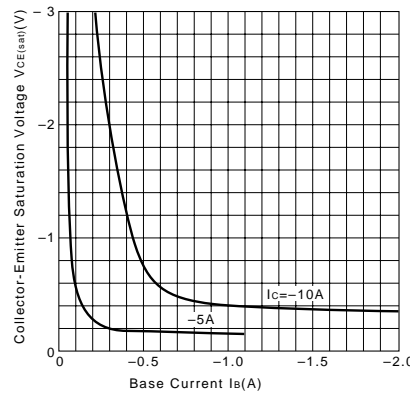
Typical Switching Characteristics (Common Emitter)

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

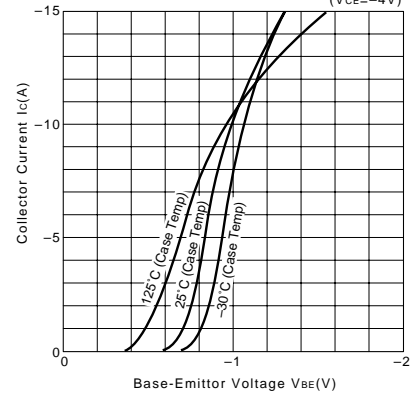
Ic-VCE Characteristics (Typical)



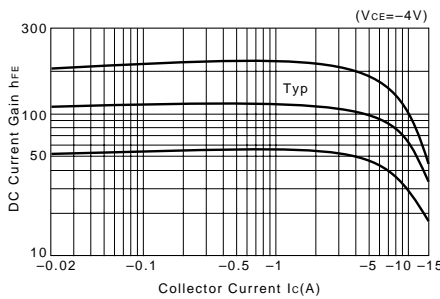
VCE(sat)-Ib Characteristics (Typical)



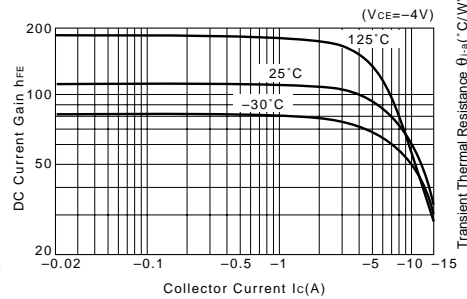
Ic-VBE Temperature Characteristics (Typical)



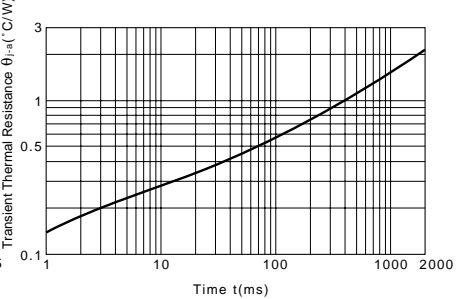
hFE-Ic Characteristics (Typical)



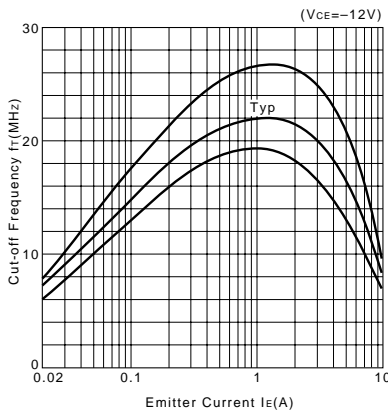
hFE-Ic Temperature Characteristics (Typical)



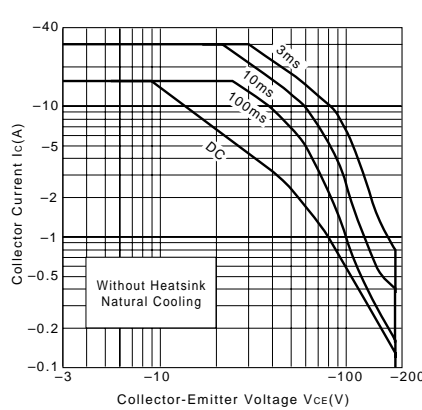
θja-t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

