

2SA1667/1668

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC4381/4382)

Application : TV Vertical Output, Audio Output Driver and General Purpose

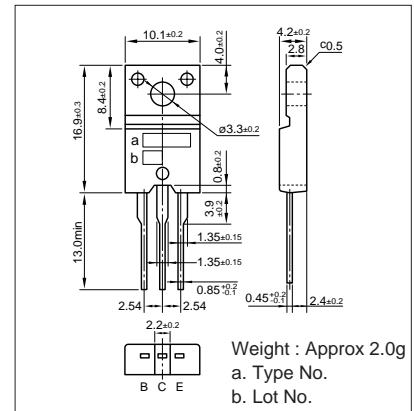
Absolute maximum ratings (Ta=25°C)

Symbol	2SA1667	2SA1668	Unit
VcBo	-150	-200	V
VcEo	-150	-200	V
VEBo	-6		V
Ic	-2		A
Ib	-1		A
Pc	25(Tc=25°C)		W
Tj	150		°C
Tstg	-55 to +150		°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SA1667	2SA1668	Unit
IcBo	VcB=	-10max	-10max	μA
IEBo	VEB=-6V	-150min	-200min	μA
V(BR)CEO	Ic=-25mA	-150min	-200min	V
hFE	VCE=-10V, Ic=-0.7A	60min		
VCE(sat)	Ic=-0.7A, Ib=-0.07A	-1.0max		V
fr	VCE=-12V, IE=0.2A	20typ		MHz
COB	VcB=-10V, f=1MHz	60typ		pF

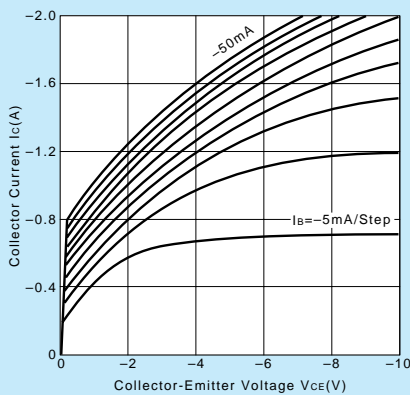
External Dimensions FM20 (TO220F)



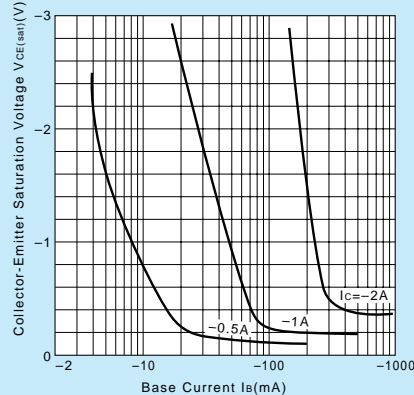
Typical Switching Characteristics (Common Emitter)

VCC (V)	RL (Ω)	Ic (A)	VBB1 (V)	VBB2 (V)	Ib1 (mA)	Ib2 (mA)	ton (μs)	tstg (μs)	tf (μs)
-20	20	-1	-10	5	-100	100	0.4typ	1.5typ	0.5typ

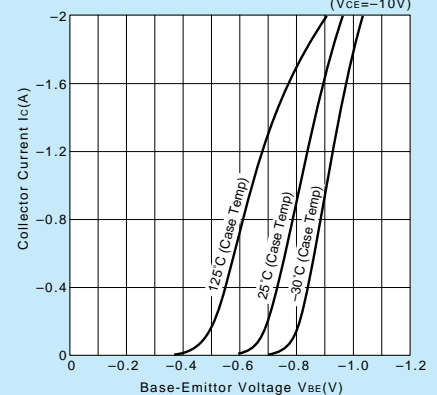
Ic-VCE Characteristics (Typical)



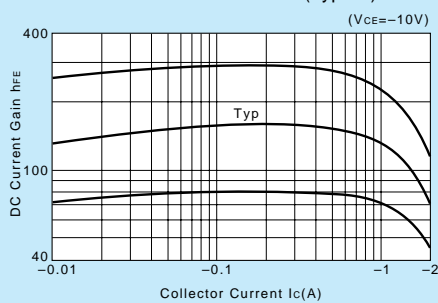
VCE(sat)-Ib Characteristics (Typical)



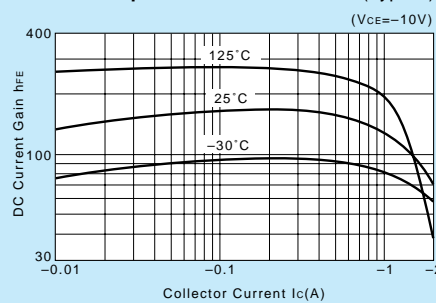
Ic-VBE Temperature Characteristics (Typical)



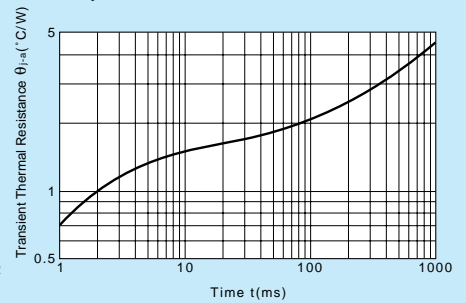
hFE-Ic Characteristics (Typical)



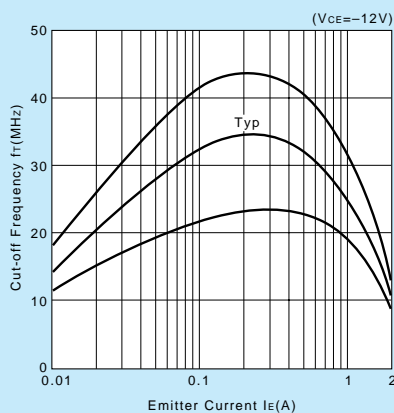
hFE-Ic Temperature Characteristics (Typical)



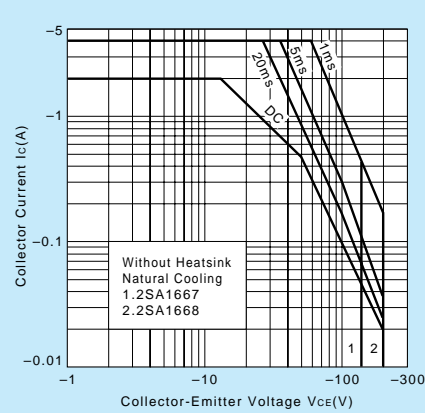
θj-a-t Characteristics



fr-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

