2SA1667/1668

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

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

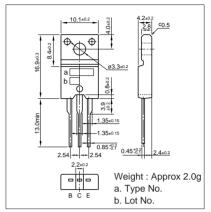
(Ta=25°C)

■Absolute maximum ratings (Ta=25°C) ■Electrical Characteristics

Symbol	2SA1667	2SA1668	Unit
Vсво	-150	-200	V
VCEO	-150	-200	V
VEBO	-(V	
Ic	-2		А
Ів	-1		А
Pc	25(Tc=25°C)		W
Tj	150		°C
Tsta	-55 to +150		°C

					/
Symbol	Conditions		2SA1667	2SA1668	Unit
Ісво			-10max	-10max	μΑ
ГСВО		Vcb=	-150	-200	V
І ЕВО	VEB=-6V		-10max		μΑ
V(BR)CEO	Ic=-	-25mA	-150min	-200min	V
hfe	Vce=-10	V, Ic=-0.7A	60	min	
Vce(sat)	Ic=-0.7A	, IB=-0.07A	-1.0	max	V
fт	Vce=-12	2V, IE=0.2A	20	typ	MHz
Сов	VcB=-10	OV, f=1MHz	60	typ	pF

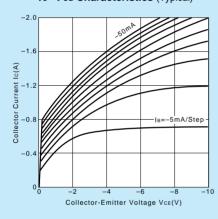
External Dimensions FM20 (TO220F)



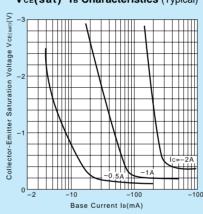
Typical Switching Characteristics (Common Emitter)

Vcc	RL	Ic	V _{BB1} (V)	VBB2	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)		(V)	(mA)	(mA)	(µs)	(µs)	(µs)
-20	20	-1	-10	5	-100	100	0.4typ	1.5typ	0.5typ

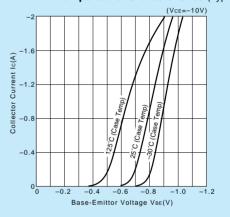
Ic-VcE Characteristics (Typical)



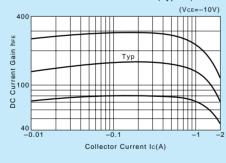
VcE(sat)-IB Characteristics (Typical)



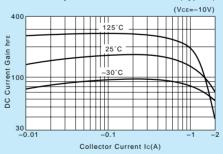
Ic-VBE Temperature Characteristics (Typical)



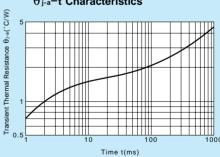
hfe-Ic Characteristics (Typical)



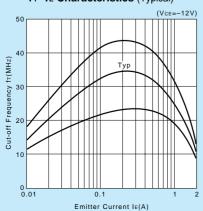
hfe-Ic Temperature Characteristics (Typical)



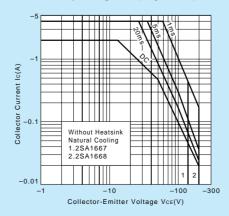
θ_{j-a}-t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

