

2SA1672

Silicon PNP Epitaxial Planar Transistor

☆ Complement to type 2SC4387

Application Example:
Audio and General Purpose

• Outline Drawing 5 FM100

Absolute Maximum Ratings

($T_a=25^\circ\text{C}$)

Symbol	2SA1672	Unit
V_{CB0}	-14(V)	V
V_{CE0}	-14(V)	V
V_{EB0}	-6	V
I_C	-10	A
I_B	-4	A
P_C	80 ($T_c=25^\circ\text{C}$)	W
T_j	150	$^\circ\text{C}$
T_{stg}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics

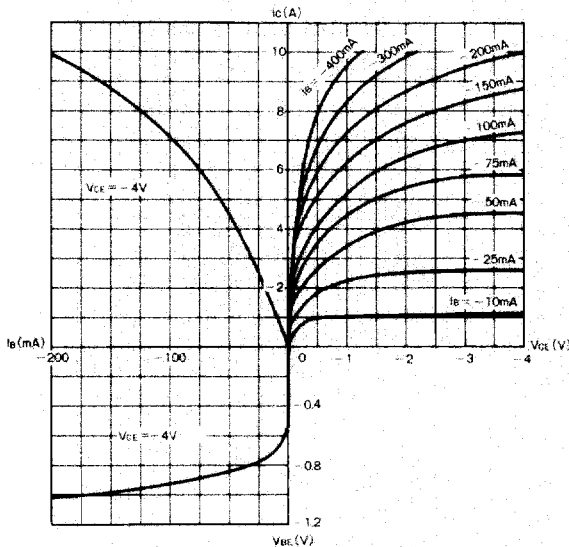
($T_a=25^\circ\text{C}$)

Symbol	Conditions	2SA1672	Unit
I_{CB0}	$V_{CB} = -140\text{V}$	-10max	μA
I_{EB0}	$V_{EB} = -6\text{V}$	-10max	μA
$V_{(BR)CEO}$	$I_C = -50\text{mA}$	-140min	V
h_{FE}	$V_{CE} = -4\text{V}$, $I_C = -3\text{A}$	50min	
$V_{CE(sat)}$	$I_C = -5\text{A}$, $I_B = -0.5\text{A}$	-2.0max	V
f_T	$V_{CE} = -12\text{V}$, $I_E = 0.5\text{A}$	20typ	MHz

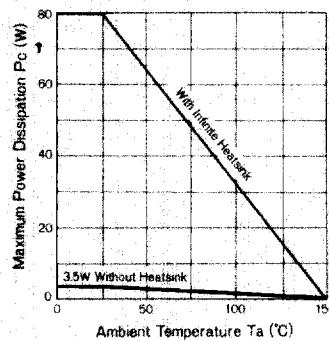
Typical Switching Characteristics (Common Emitter)

V_{CC} (V)	R_L (Ω)	I_C (A)	V_{BE1} (V)	V_{BE2} (V)	I_{B1} (A)	I_{B2} (A)	t_{on} (μs)	t_{stg} (μs)	t_f (μs)
-60	12	-5	-10	5	-0.5	0.5	0.3typ	0.9typ	0.2typ

Common Emitter Characteristics (Typical)

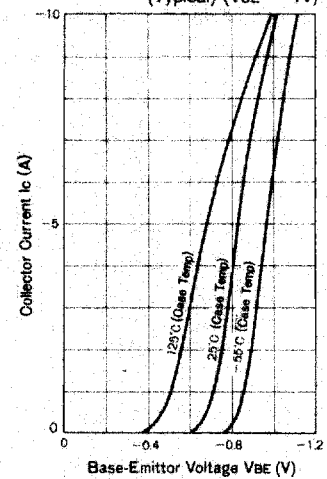


P_C - T_a Derating



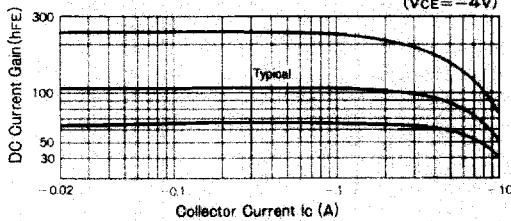
I_C - V_{BE} Temperature Characteristics

(Typical) ($V_{CE} = -4\text{V}$)



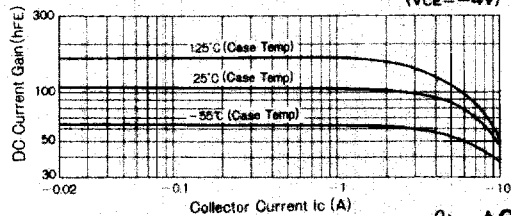
h_{FE} - I_C Characteristics

($V_{CE} = -4\text{V}$)



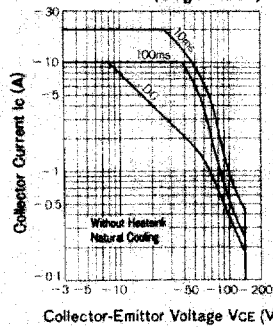
h_{FE} - I_C Temperature Characteristics

(Typical) ($V_{CE} = -4\text{V}$)



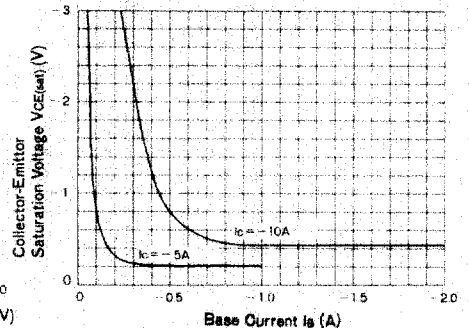
Safe Operating Area (SOA)

(Single Pulse)

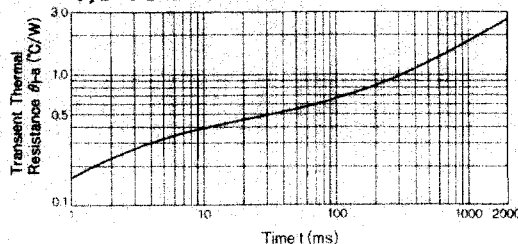


$V_{CE(sat)}$ - I_B Characteristics

(Typical)



θ_{JA} - t Characteristics



f_T - I_E Characteristics

($V_{CE} = -12\text{V}$)

