

2SC4386

Silicon NPN Triple Diffused Planar

T-33-13

☆ Complement to type 2SA1671

Application Example:
Audio and General Purpose

● Outline Drawing 5FM100

Absolute Maximum Ratings (Ta=25°C)

Symbol	2SC4386	Unit
V _{CB0}	160	V
V _{CE0}	120	V
V _{EB0}	6	V
I _C	8	A
I _B	3	A
P _C	75 (T _C =25°C)	W
T _J	150	°C
T _{stg}	-55~+150	°C

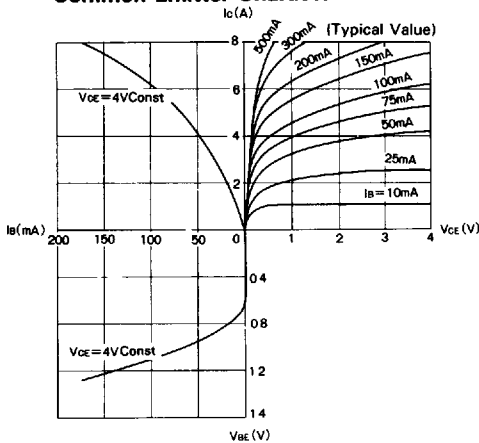
Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SC4386	Unit
I _{CB0}	V _{CB} =160V	10max	μA
I _{EB0}	V _{EB} =6V	10max	μA
V _{(BR)CEO}	I _C =50mA	120min	V
h _{FE}	V _{CE} =4V, I _C =3A	50min	
V _{CE(sat)}	I _C =3A, I _B =0.3A	1.5max	V
f _T	V _{CE} =12V, I _E =-0.5A	20typ	MHz

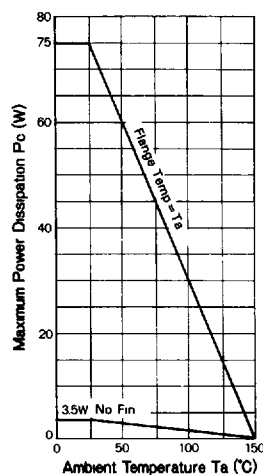
Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	I _{B2} (A)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
40	10	4	10	-5	0.4	-0.4	0.3typ	3.4typ	0.4typ

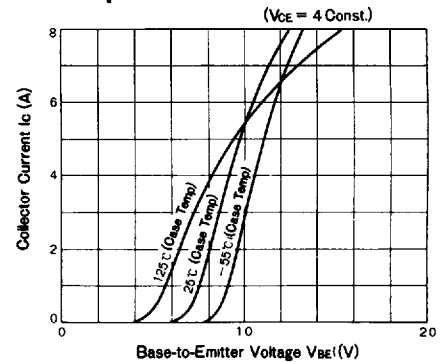
Common Emitter Characteristics



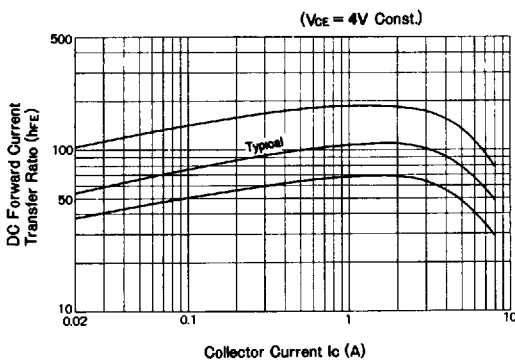
Power Derating



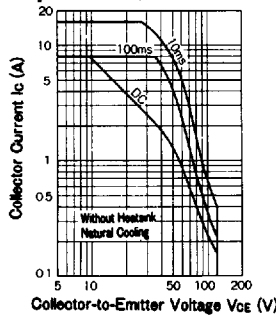
Temperature Characteristics



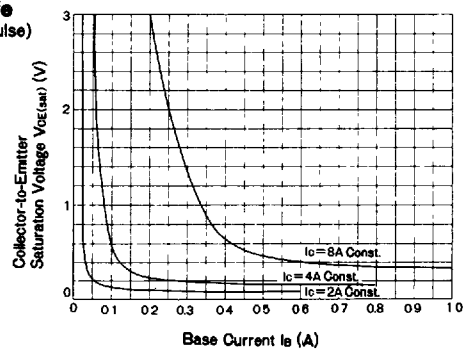
DC Current Gain Characteristics



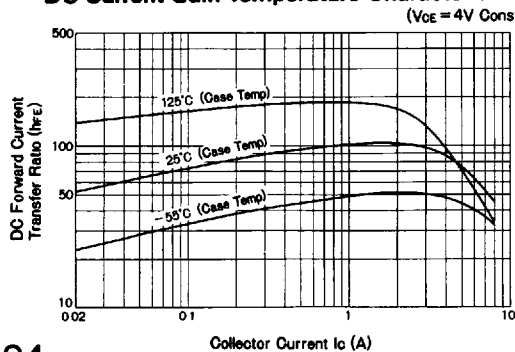
Maximum Areas For Safe Operation (ASO) (Single Pulse)



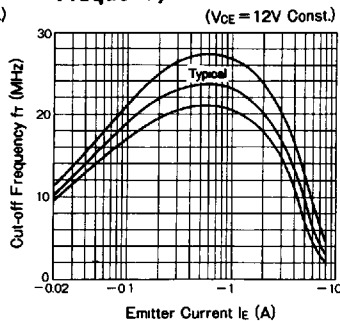
VCE(sat) - I_B Characteristics (Typical Value)



DC Current Gain Temperature Characteristics



Frequency Characteristics



Transient Thermal Resistance Characteristics

