Silicon PNP Power Transistors 2SA886

DESCRIPTION

·With TO-126 package
·Complement to type 2SC1847
·Low collector-emitter saturation voltage

APPLICATIONS

·For low-frequency power amplification

PINNING

PIN	DESCRIPTION
1	Emitter
2	Collector;connected to mounting base
3	Base

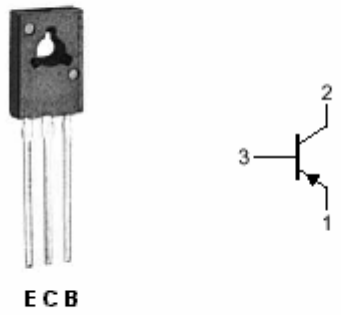

Fig.1 simplified outline (TO-126) and symbol

Absolute Maximun Ratings (Ta=25□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-50	V
V_{CEO}	Collector-emitter voltage	Open base	-40	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-1.5	A
I_{CM}	Collector current-peak		-3.0	A
P_C	Collector power dissipation	T_C=25□	1.2*[1]	W
			5*[2]	
T_j	Junction temperature		150	□
T_{stg}	Storage temperature		-55~150	□

Note) *1: Without heat sink

*2: With a 100 × 100 × 2 mm A1 heat sink

Silicon PNP Power Transistors 2SA886

CHARACTERISTICS

Tj=25□ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	I_C=-2mA;I_B=0	-40			V
$V_{(BR)CBO}$	Collector-base breakdown voltage	I_C=-1mA ;I_E=0	-50			V
V_{CEsat}	Collector-emitter saturation voltage	I_C=-1.5A ;I_B=-0.15A			-1.0	V
V_{BEsat}	Base-emitter saturation voltage	I_C=-2A ;I_B=-0.2A			-1.5	V
I_{CBO}	Collector cut-off current	V_{CB}=-20V; I_E=0			-1	μA
I_{CEO}	Collector cut-off current	V_{CE}=-10V; I_B=0			-100	μA
I_{EBO}	Emitter cut-off current	V_{EB}=-5V; I_C=0			-10	μA
h_{FE}	DC current gain	I_C=-1A ; V_{CE}=-5V	80		220	
C_{OB}	Output capacitance	I_E=0 ; V_{CB}=-20V;f=1MHz		45		pF
f_T	Transition frequency	I_C=0.5A ; V_{CB}=-5V,f=200MHz		150		MHz

◆ **h_{FE} Classifications**

Q	R
80-160	120-220

PACKAGE OUTLINE

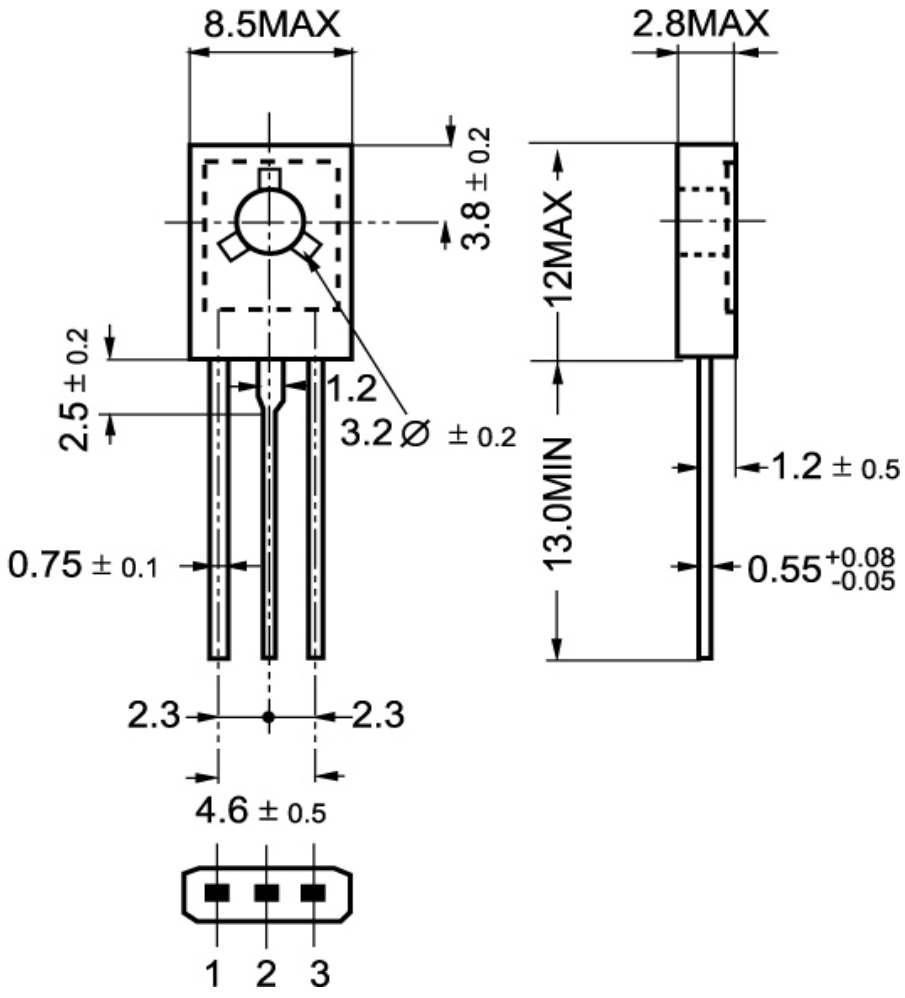

Fig.2 Outline dimensions

Silicon PNP Power Transistors 2SA886

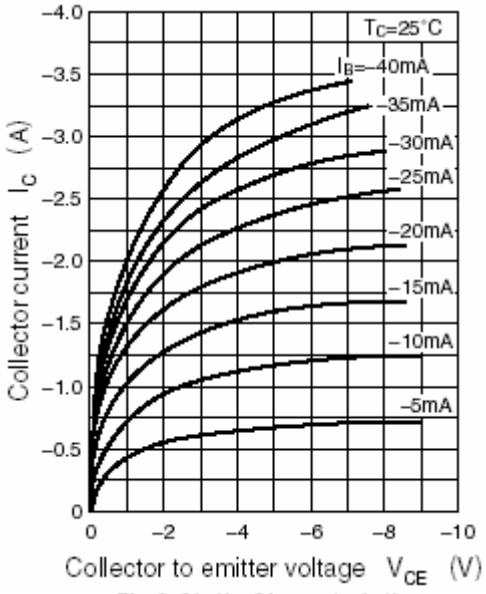

Fig.3 Static Characteristic

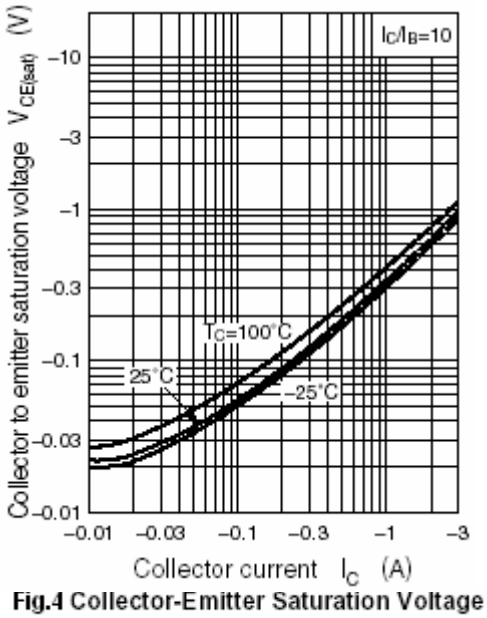

Fig.4 Collector-Emitter Saturation Voltage

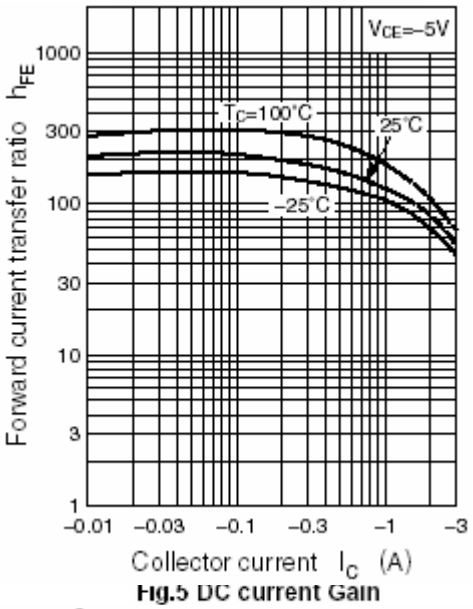

Fig.5 DC current Gain

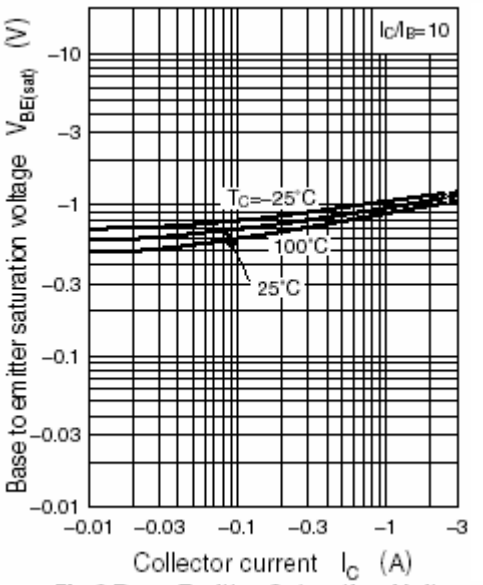

Fig.6 Base-Emitter Saturation Voltage

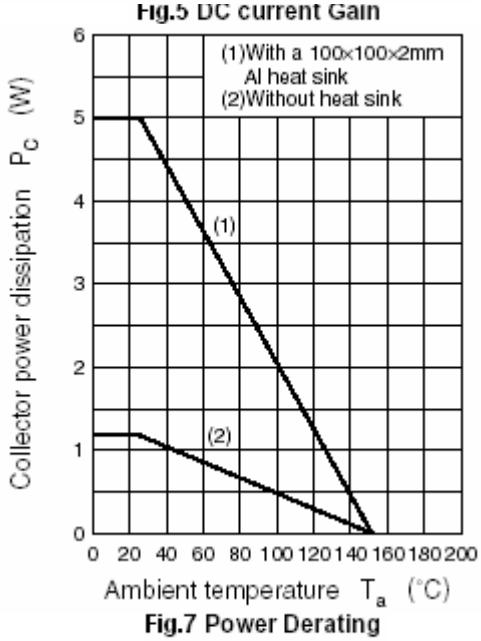

Fig.7 Power Derating

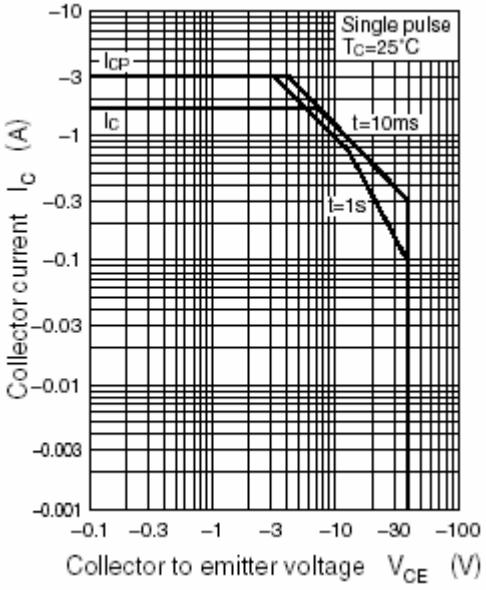

Fig.8 Safe Operating Area