DESCRIPTION

·With TO-220 package
·Complement to type 2SC2334
·Low collector saturation voltage
·Fast switching speed

APPLICATIONS

·Switching regulators
·DC/DC converters
·High frequency power amplifiers

PINNING

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

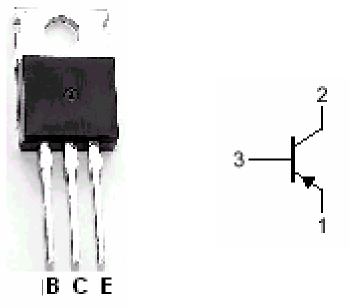

Fig.1 simplified outline (TO-220) and symbol

Absolute maximum ratings(Ta=25□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-100	V
V_{CEO}	Collector-emitter voltage	Open base	-100	V
V_{EBO}	Emitter-base voltage	Open collector	-7	V
I_C	Collector current		-7	A
I_{CM}	Collector current-Peak		-15	A
I_B	Base current		-3.5	A
P_T	Total power dissipation	T_a=25□	1.5	W
		T_C=25□	40	
T_j	Junction temperature		150	□
T_{stg}	Storage temperature		-55~150	□

CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	I_C=-5.0A ,I_B=-0.5A,L=1mH	-100			V
V_{CEsat}	Collector-emitter saturation voltage	I_C=-5A; I_B=-0.5A			-0.6	V
V_{BEsat}	Base-emitter saturation voltage	I_C=-5A; I_B=-0.5A			-1.5	V
I_{CBO}	Collector cut-off current	V_{CB}=-100V; I_E=0			-10	μA
I_{EBO}	Emitter cut-off current	V_{EB}=-5V; I_C=0			-10	μA
h_{FE-1}	DC current gain	I_C=-0.5A ; V_{CE}=-5V	40		200	
h_{FE-2}	DC current gain	I_C=-3A ; V_{CE}=-5V	40		200	
h_{FE-3}	DC current gain	I_C=-5A ; V_{CE}=-5V	20			

Switching times resistive load

t_{on}	Turn-on time	I_C=-5.0A I_{B1}=- I_{B2}=-0.5A R_L=10Ω;V_{CC}≈50V			0.5	μs
t_s	Storage time				1.5	μs
t_f	Fall time				0.5	μs

◆ h_{FE-2} Classifications

M	L	K
40-80	60-120	100-200

PACKAGE OUTLINE

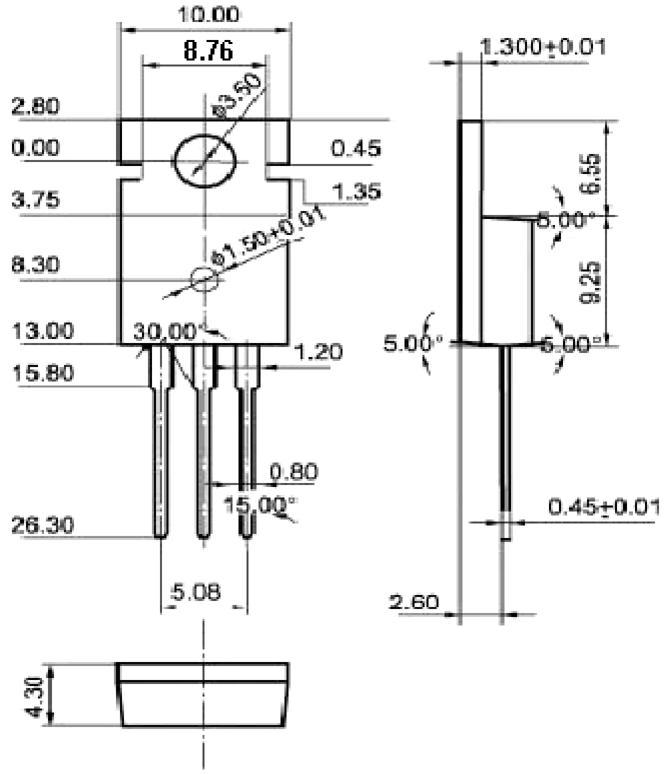

Fig.2 Outline dimensions(unindicated tolerance:±0.10 mm)

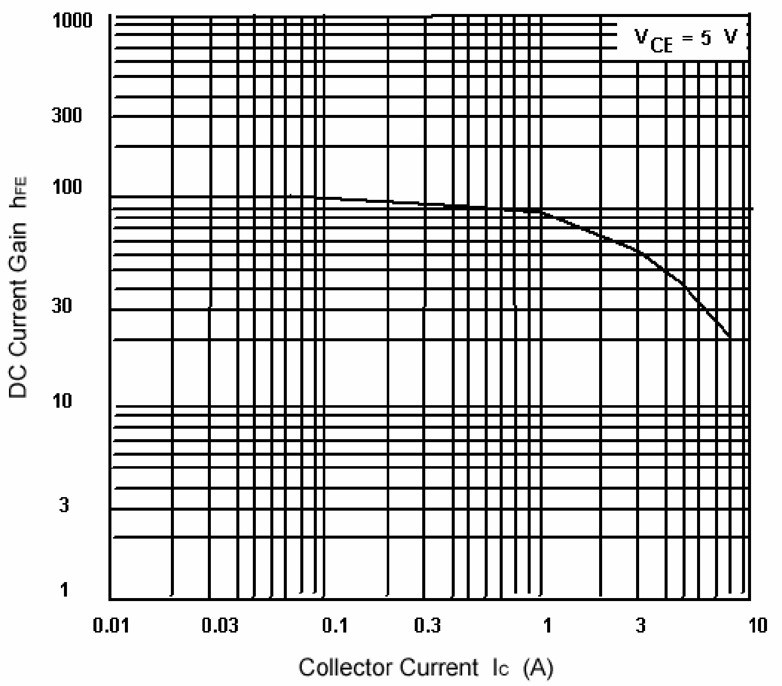

Fig.3 DC current Gain

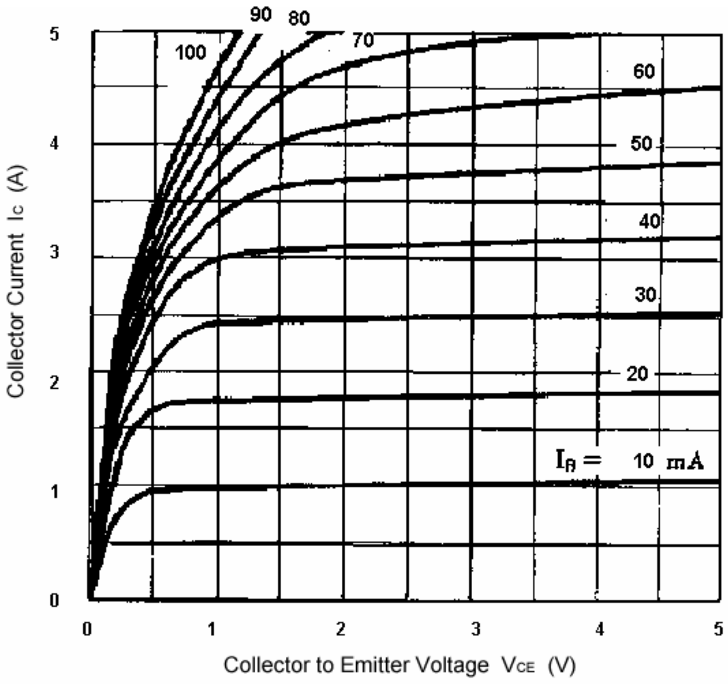

Fig.4 Static Characteristic

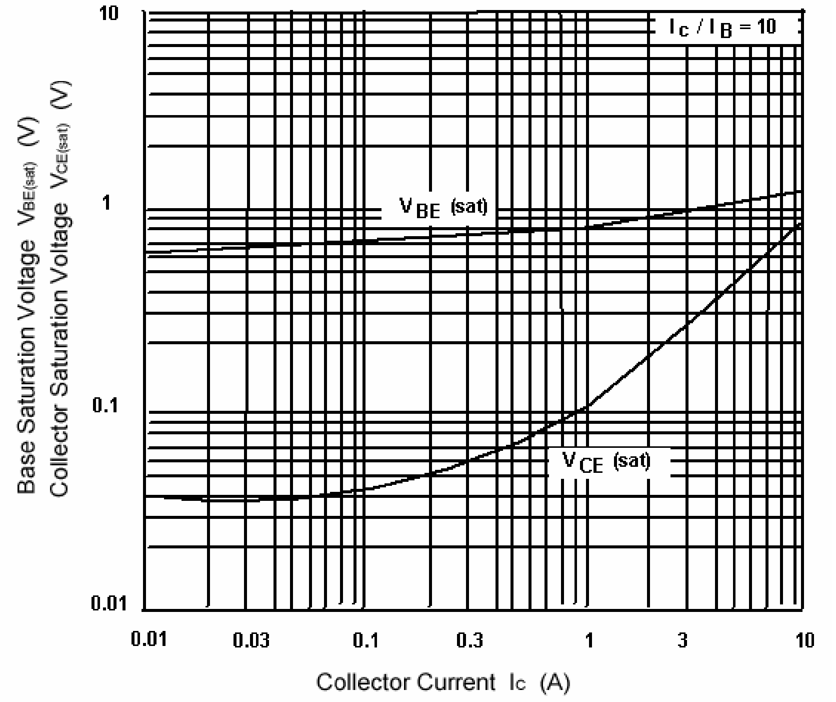

Fig.5 Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

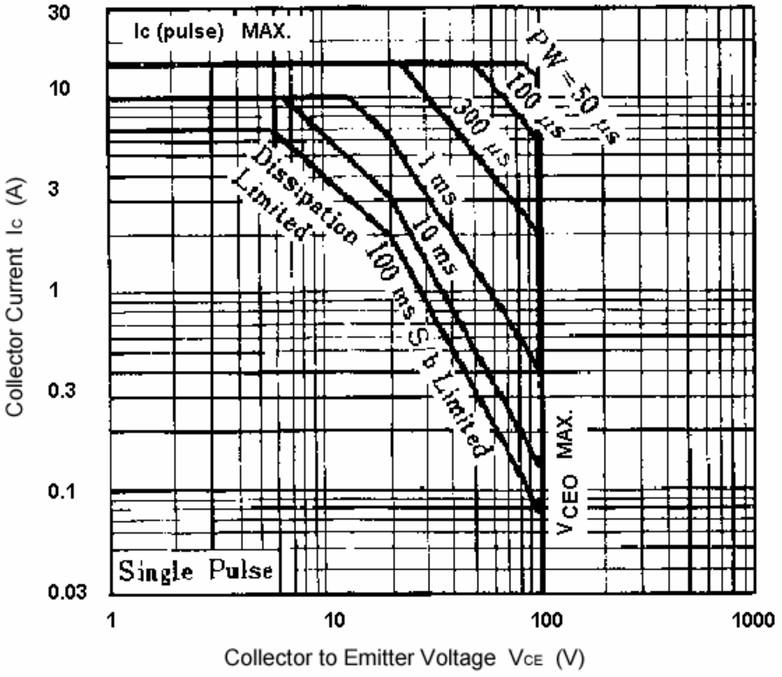

Fig.6 Safe Operating Area