

Silicon NPN Power Transistors

2SC2626

DESCRIPTION

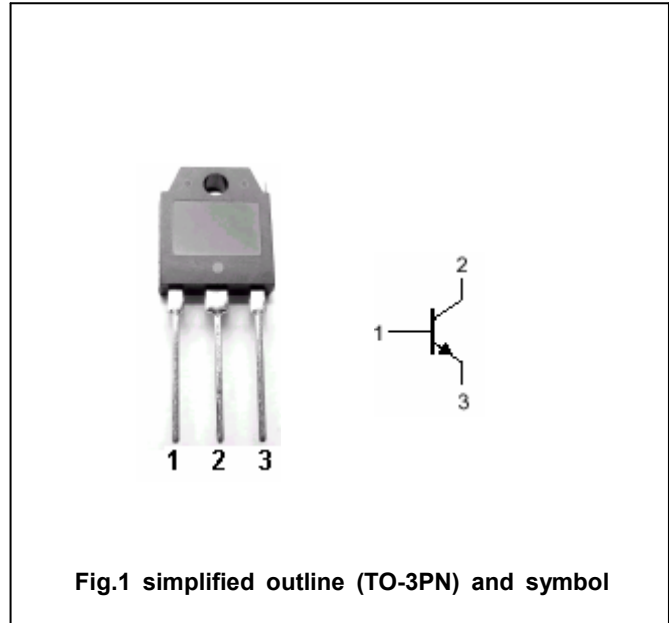
- With TO-3PN package
- High voltage,high speed switching
- High reliability

APPLICATIONS

- Switching regulators
- Ultrasonic generators
- High frequency inverters
- General purpose power amplifiers

PINNING

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

Absolute maximum ratings ($T_c=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	400	V
V_{CEO}	Collector-emitter voltage	Open base	300	V
V_{EBO}	Emitter-base voltage	Open collector	7	V
I_C	Collector current		15	A
I_B	Base current		5	A
P_C	Collector power dissipation	$T_c=25^\circ\text{C}$	80	W
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal resistance junction to case	1.55	$^\circ\text{C}/\text{W}$

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =10mA ; I _B =0	300			V
V _{CEO(SUS)}	Collector-emitter sustaining voltage	I _C =1A ; I _B =0	300			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =1mA ; I _E =0	400			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =0.1mA ; I _C =0	7			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =6A ; I _B =1.2A			1.2	V
V _{BEsat}	Emitter-base saturation voltage	I _C =6A ; I _B =1.2A			1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =400V ; I _E =0			1.0	mA
I _{EBO}	Emitter cut-off current	V _{EB} =7V ; I _C =0			0.1	mA
h _{FE}	DC current gain	I _C =6A ; V _{CE} =5V	10			

Switching times

t _{on}	Turn-on time	I _C =10A I _{B1} =-I _{B2} =2A R _L =20Ω, Pw=20μs Duty≤2%			0.8	μs
t _s	Storage time				2.0	μs
t _f	Fall time				0.8	μs

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PACKAGE OUTLINE

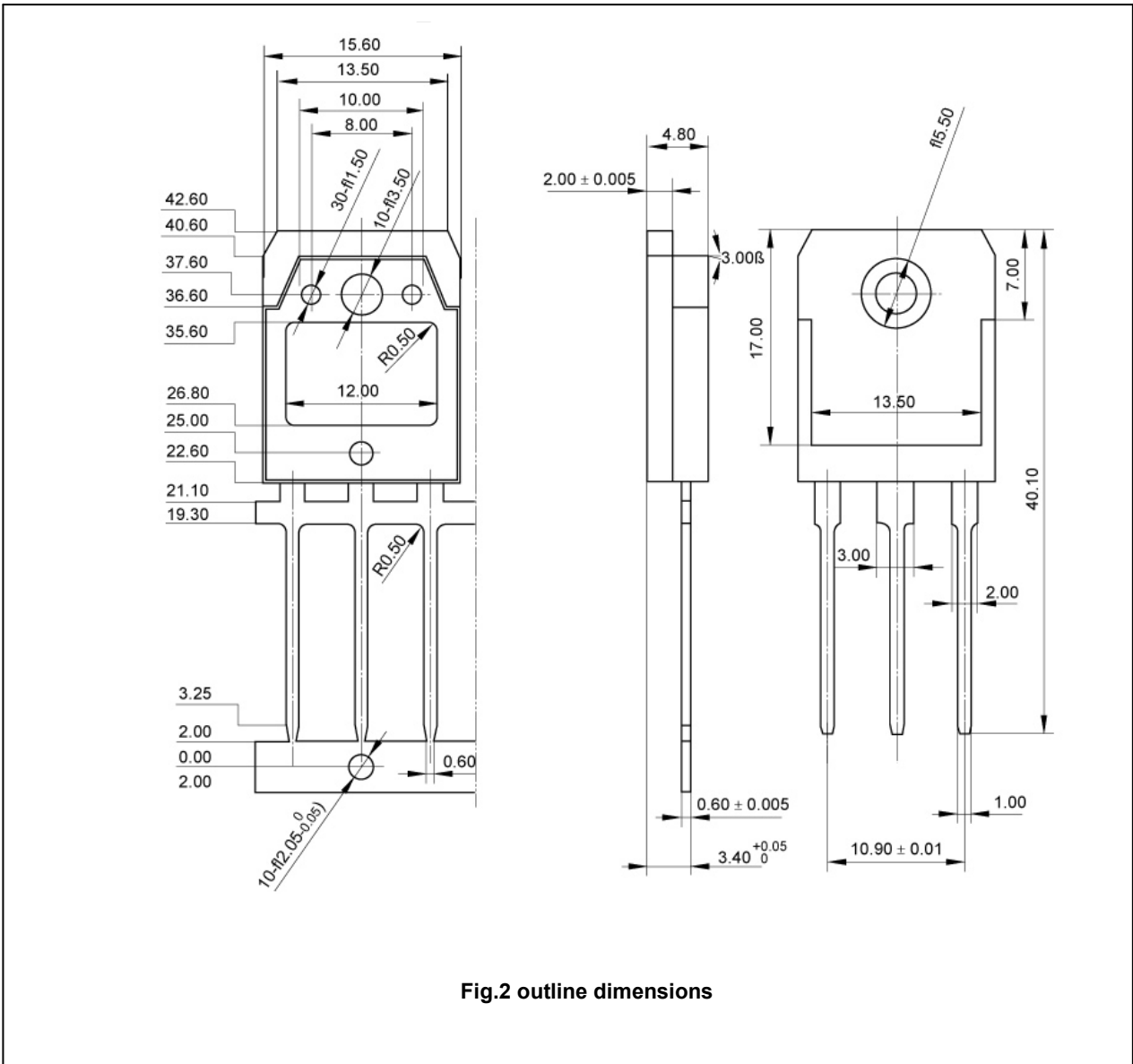


Fig.2 outline dimensions

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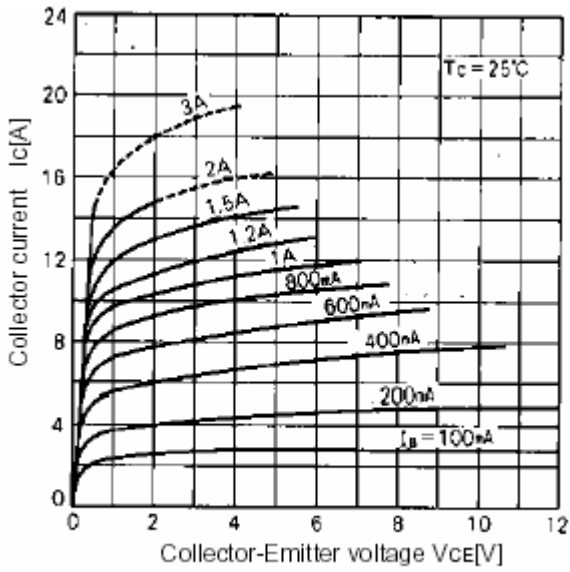


Fig.3 Static Characteristic

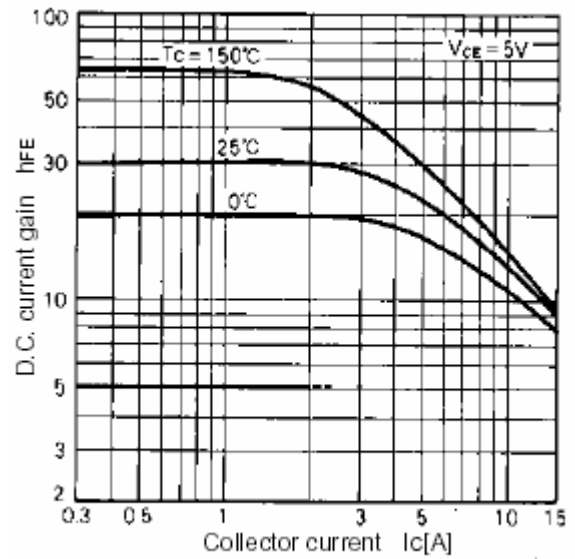


Fig.4 DC current Gain

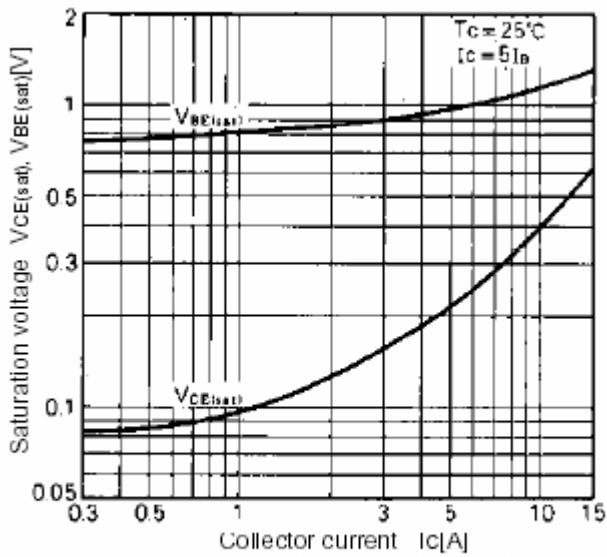


Fig.5 Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

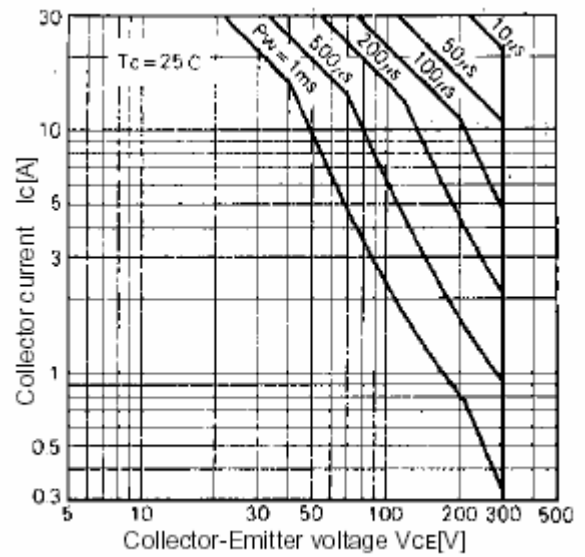


Fig.6 Safe Operating Area