

Silicon NPN Power Transistors

2SC2767

DESCRIPTION

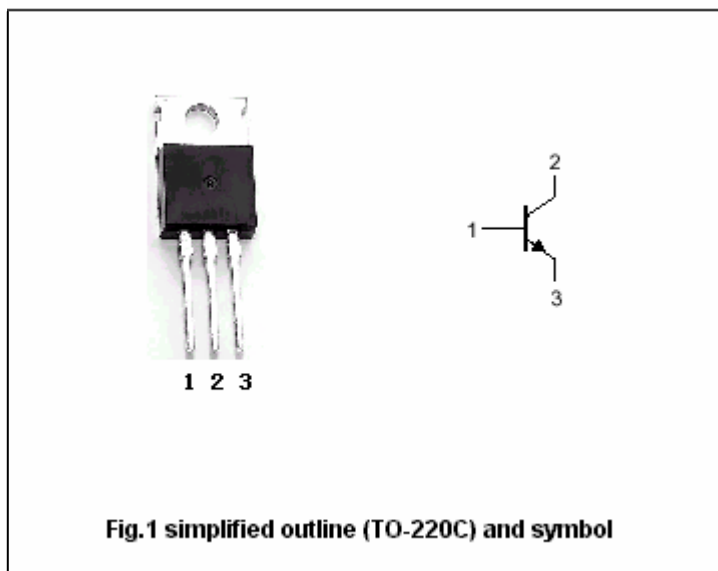
- With TO-220C package
- High speed switching
- High reliability

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	250	V
V_{CEO}	Collector-emitter voltage	Open base	200	V
V_{EBO}	Emitter-base voltage	Open collector	7	V
I_C	Collector current		5	A
I_B	Base current		1.5	A
P_C	Collector power dissipation	$T_C=25^\circ\text{C}$	40	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 case	3.0	$^\circ\text{C}/\text{W}$

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CHARACTERISTICS

T_j=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =25mA ; I _B =0	200			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =100μA ; I _E =0	250			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =100μA ; I _C =0	7			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =2A; I _B =0.8A			0.2	V
V _{BEsat}	Base-emitter saturation voltage	I _C =2A; I _B =0.8A			1.0	V
I _{CBO}	Collector cut-off current	V _{CB} =250V ; I _E =0			10	μA
I _{EBO}	Emitter cut-off current	V _{EB} =7V; I _C =0			100	μA
h _{FE}	DC current gain	I _C =1A ; V _{CE} =5V	20		80	

Switching times

t _{on}	Turn-on time	I _C =4A; I _{B1} =-I _{B2} =-0.4A R _L =20Ω			1.0	μs
t _{stg}	Storage time				2.0	μs
t _f	Fall time				1.0	μs

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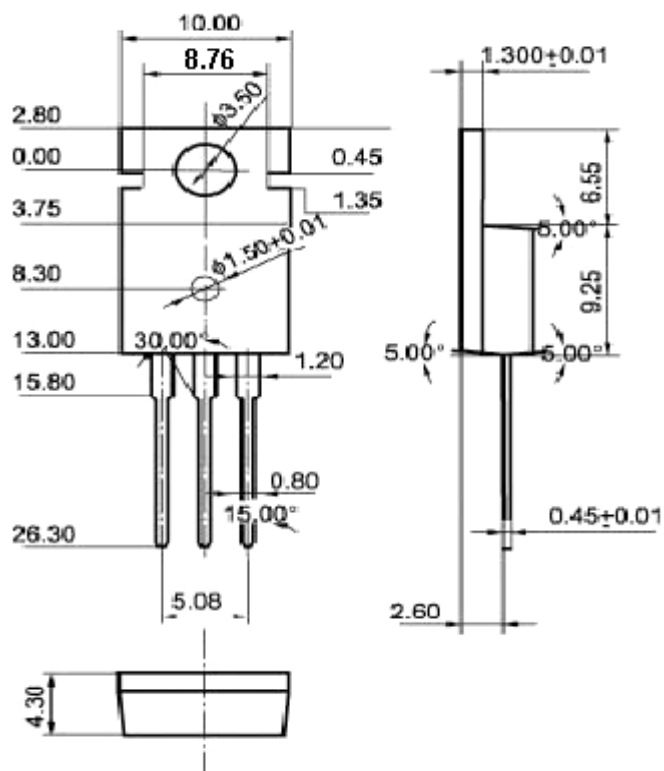


Fig.2 Outline dimensions (unindicated tolerance:±0.10 mm)

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