

Silicon NPN Power Transistors

2SC4237

DESCRIPTION

- With TO-247 package
- Switching power transistor
- High breakdown voltage

PINNING

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

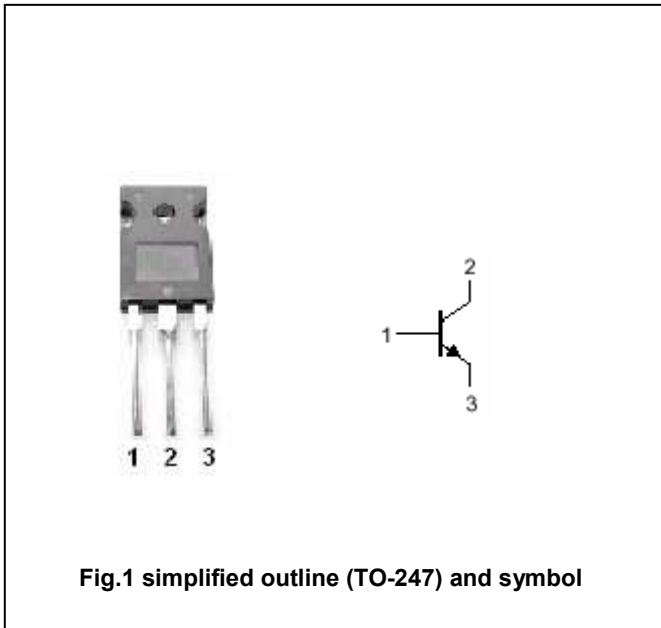


Fig.1 simplified outline (TO-247) and symbol

Absolute maximum ratings(Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	1200	V
V _{CEO}	Collector-emitter voltage	Open base	800	V
V _{EBO}	Emitter-base voltage	Open collector	7	V
I _C	Collector current (DC)		10	A
I _{CM}	Collector current-Peak		20	A
I _B	Base current		4	A
I _{BM}	Base current-Peak		8	A
P _D	Total power dissipation	T _C =25°C	150	W
T _j	Junction temperature		150	°C
T _{stg}	Storage temperature		-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal resistance junction to case	0.83	°C/W

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	I _C =0.2A; I _B =0	800			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =5A; I _B =1A			1.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =5A; I _B =1A			1.5	V
I _{CBO}	Collector cut-off current	At rated voltage			0.1	mA
I _{CEO}	Collector cut-off current					
I _{EBO}	Emitter cut-off current	At rated voltage			0.1	mA
h _{FE-1}	DC current gain	I _C =5A; V _{CE} =5V	8			
h _{FE-2}	DC current gain	I _C =1mA; V _{CE} =5V	5			
f _T	Transition frequency	I _C =1A; V _{CE} =10V		8		MHz

Switching times resistive load

t _{on}	Turn-on time	I _C =5A I _{B1} =1A; I _{B2} =2A V _{BB2} =4V, R _L =50Ω			0.5	μs
t _s	Storage time				3.5	μs
t _f	Fall time				0.3	μs

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PACKAGE OUTLINE

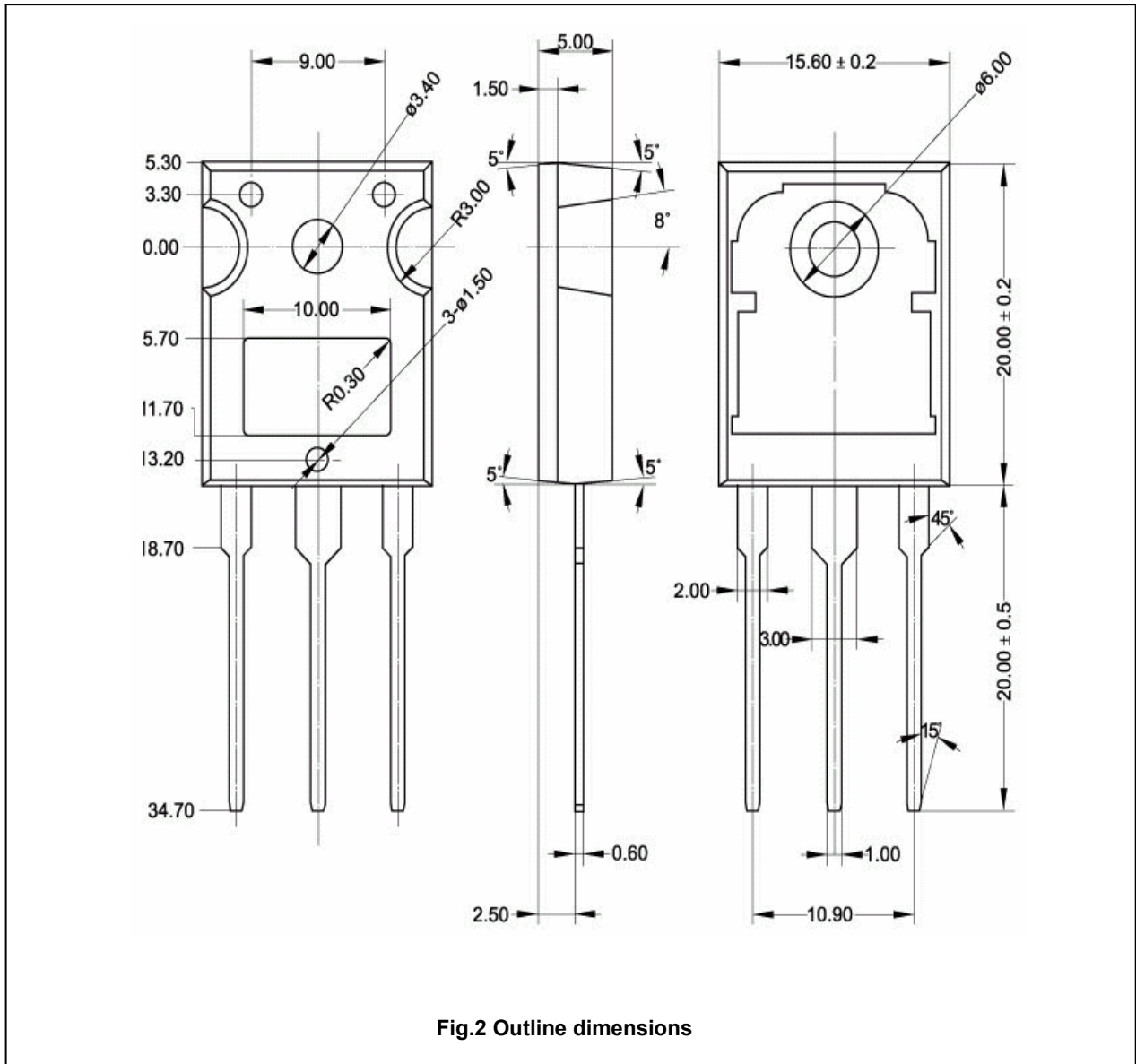


Fig.2 Outline dimensions

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.