

Silicon NPN Power Transistors

2SC4833

DESCRIPTION

- With ITO-220 package
- Switching power transistor
- High voltage,high speed

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

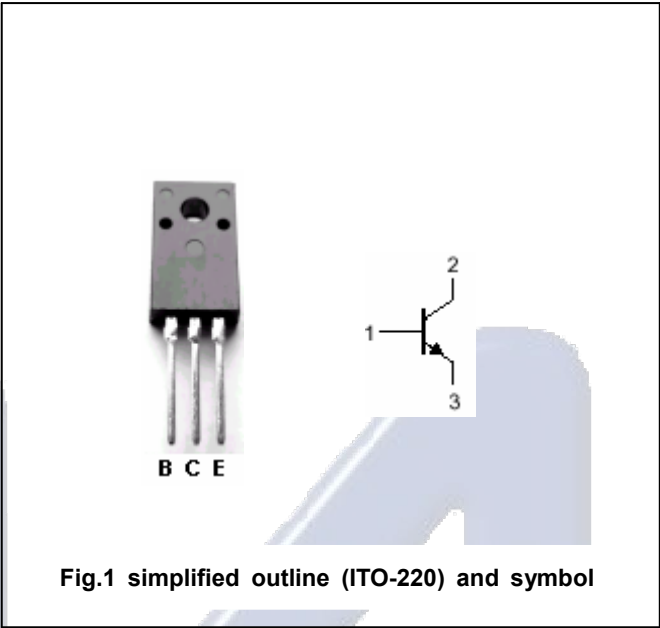


Fig.1 simplified outline (ITO-220) and symbol

Absolute maximum ratings(Ta=25℃)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	500	V
V _{CEO}	Collector-emitter voltage	Open base	400	V
V _{EBO}	Emitter-base voltage	Open collector	7	V
I _C	Collector current		5	A
I _{CM}	Collector current-Peak		10	A
I _B	Base current		2	A
I _{BM}	Base current-Peak		4	A
P _T	Total power dissipation	T _C =25℃	35	W
T _j	Junction temperature		150	℃
T _{stg}	Storage temperature		-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-C}	Thermal resistance junction to case	3.57	℃/W

SavantIC Semiconductor

Product Specification

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CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEQ(SUS)}$	Collector-emitter sustaining voltage	$I_C=0.1A ; I_B=0$	400			V
V_{CEsat}	Collector-emitter saturation voltage	$I_C=2.5A ; I_B=0.5A$			1.0	V
V_{BEsat}	Base-emitter saturation voltage	$I_C=2.5A ; I_B=0.5A$			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	$I_C=2.5A ; V_{CE}=2V$	10		25	
h_{FE-2}	DC current gain	$I_C=1mA ; V_{CE}=2V$	10			
f_T	Transition frequency	$I_C=0.5A ; V_{CE}=10V$		13		MHz
t_{on}	Turn-on time	$I_C=2.5A ; I_{B1}=0.5A$ $I_{B2}=1A , R_L=60\Omega$ $V_{BB2}=4V$			0.3	μs
t_s	Storage time				1.3	μs
t_f	Fall time				0.1	μs

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PACKAGE OUTLINE

