

Silicon NPN Power Transistors

2SC2832 2SC2832A

DESCRIPTION

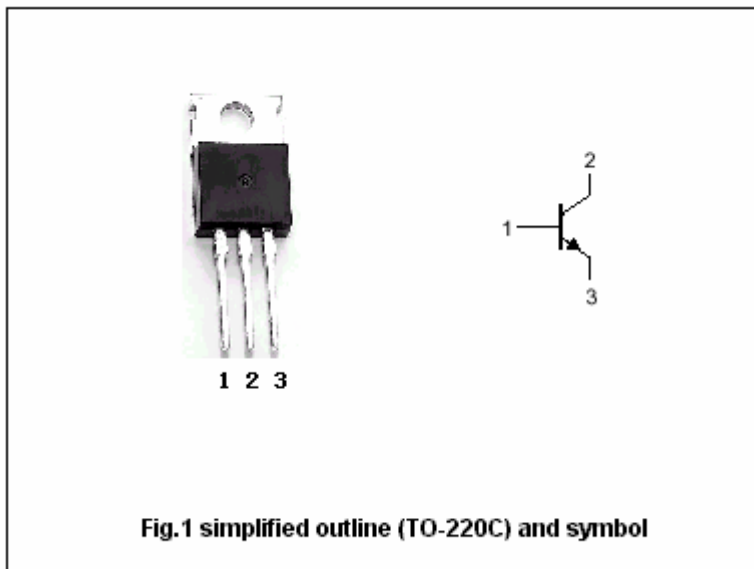
- With TO-220 package
- Low collector saturation voltage
- High V_{CBO}
- High speed switching

APPLICATIONS

- For high speed switching applications

PINNING

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



Absolute maximum ratings (Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	2SC2832	800	V
		2SC2832A	900	
V_{CEO}	Collector-emitter voltage	Open base	500	V
V_{EBO}	Emitter-base voltage	Open collector	8	V
I_C	Collector current		5	A
I_{CM}	Collector current-peak		10	A
I_B	Base current		3	A
P_C	Collector power dissipation	$T_C=25^\circ C$	40	W
T_j	Junction temperature		150	°C
T_{stg}	Storage temperature		-55~150	°C

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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; L=25mH	500			V
V _{CEsat}	Collector-emitter saturation voltage		I _C =3A; I _B =0.6A			1.0	V
V _{BEsat}	Base-emitter saturation voltage		I _C =3A; I _B =0.6A			1.5	V
I _{CBO}	Collector cut-off current	2SC2832	V _{CB} =800V; I _E =0			100	μA
		2SC2832A	V _{CB} =900V; I _E =0				
I _{EBO}	Emitter cut-off current		V _{EB} =5V; I _C =0			100	μA
h _{FE-1}	DC current gain		I _C =0.1A; V _{CE} =5V	15			
h _{FE-2}	DC current gain		I _C =3A; V _{CE} =5V	8			
f _T	Transition frequency		I _C =0.5A; V _{CE} =10V		3		MHz

Switching times

t _{on}	Turn-on time	2SC2832	I _C =3A; I _{B1} =-I _{B2} =-0.6A V _{CC} =200V			1.0	μs		
		2SC2832A				1.2			
t _{stg}	Storage time							3.0	μs
t _f	Fall time	2SC2832						1.0	μs
		2SC2832A			1.2				

