

**Silicon NPN Power Transistors**

**2SC2832 2SC2832A**

**DESCRIPTION**

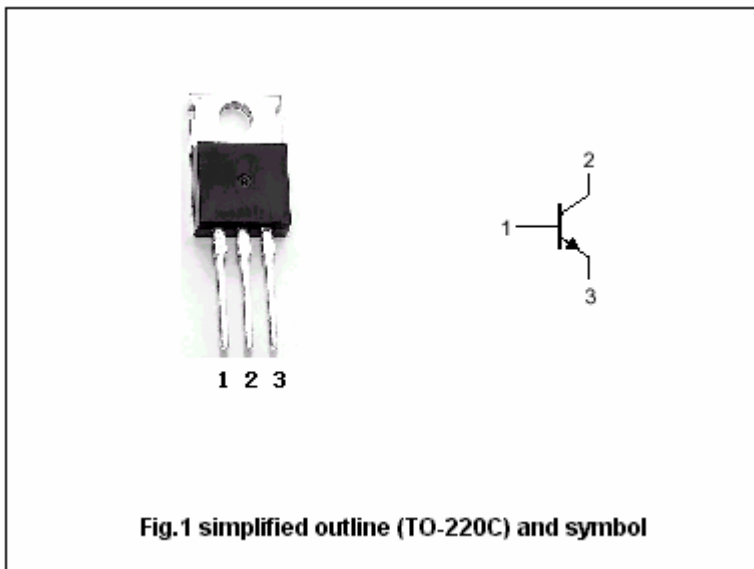
- With TO-220 package
- Low collector saturation voltage
- High  $V_{CBO}$
- High speed switching

**APPLICATIONS**

- For high speed switching applications

**PINNING**

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



**Absolute maximum ratings (Ta=25 )**

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	$T_C=25$	40	W
$T_j$	Junction temperature		150	
$T_{stg}$	Storage temperature		-55~150	

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## CHARACTERISTICS

T<sub>j</sub>=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-emitter sustaining voltage		I <sub>C</sub> =0.2A; L=25mH	500			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage		I <sub>C</sub> =3A; I <sub>B</sub> =0.6A			1.0	V
V <sub>BEsat</sub>	Base-emitter saturation voltage		I <sub>C</sub> =3A; I <sub>B</sub> =0.6A			1.5	V
I <sub>CBO</sub>	Collector cut-off current	2SC2832	V <sub>CB</sub> =800V; I <sub>E</sub> =0			100	μA
		2SC2832A	V <sub>CB</sub> =900V; I <sub>E</sub> =0				
I <sub>EBO</sub>	Emitter cut-off current		V <sub>EB</sub> =5V; I <sub>C</sub> =0			100	μA
h <sub>FE-1</sub>	DC current gain		I <sub>C</sub> =0.1A; V <sub>CE</sub> =5V	15			
h <sub>FE-2</sub>	DC current gain		I <sub>C</sub> =3A; V <sub>CE</sub> =5V	8			
f <sub>T</sub>	Transition frequency		I <sub>C</sub> =0.5A; V <sub>CE</sub> =10V		3		MHz

## Switching times

t <sub>on</sub>	Turn-on time	2SC2832	I <sub>C</sub> =3A; I <sub>B1</sub> =-I <sub>B2</sub> =-0.6A V <sub>CC</sub> =200V			1.0	μs			
		2SC2832A				1.2				
t <sub>stg</sub>	Storage time								3.0	μs
t <sub>f</sub>	Fall time	2SC2832							1.0	μs
		2SC2832A				1.2				

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PACKAGE OUTLINE

