2SC3858

#### **DESCRIPTION**

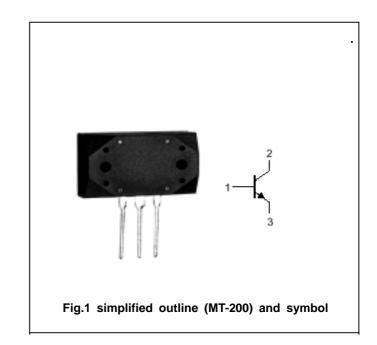
- · With MT-200 package
- · Complement to type 2SA1494

#### **APPLICATIONS**

· Audio and general purpose

#### PINNING(see Fig.2)

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



Absolute maximum ratings (Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V <sub>CBO</sub>	Collector-base voltage	Open emitter	200	V
V <sub>CEO</sub>	Collector-emitter voltage	Open base	200	V
V <sub>EBO</sub>	Emitter-base voltage	Open collector	6	V
Ic	Collector current		17	А
I <sub>B</sub>	Base current		5	А
P <sub>C</sub>	Collector power dissipation	T <sub>C</sub> =25	200	W
T <sub>j</sub>	Junction temperature		150	
$T_{stg}$	Storage temperature		-55~150	

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#### **CHARACTERISTICS**

Tj=25 unless otherwise specified

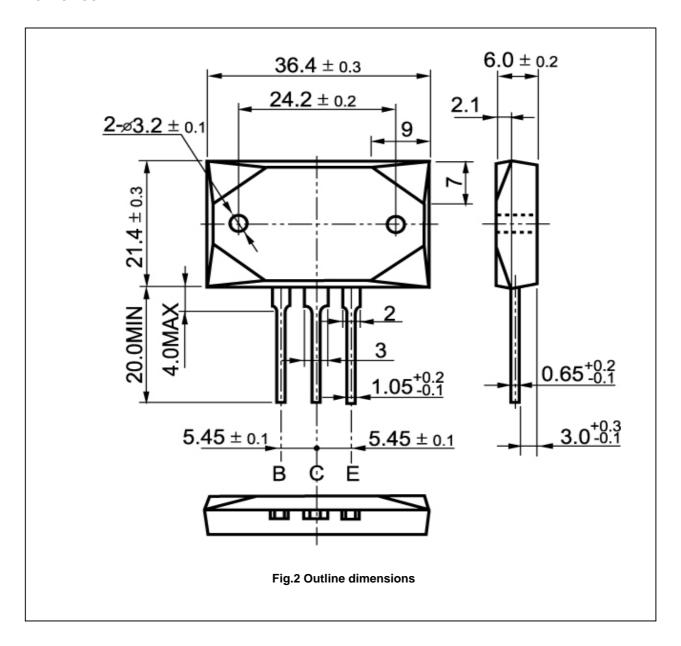
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =50mA; I <sub>B</sub> =0	200			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =10 A;I <sub>B</sub> =1 A			2.5	V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =200V; I <sub>E</sub> =0			100	μA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =6V; I <sub>C</sub> =0			100	μA
h <sub>FE</sub>	DC current gain	I <sub>C</sub> =8A ; V <sub>CE</sub> =4V	50		180	
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =1A; V <sub>CE</sub> =12V		20		MHz
Сов	Output capacitance	I <sub>E</sub> =0; V <sub>CB</sub> =10V;f=1MHz		300		pF
Switching times						
t <sub>on</sub>	Turn-on time	I <sub>C</sub> =10A;R <sub>L</sub> =4 I <sub>B1</sub> =- I <sub>B2</sub> =1A V <sub>CC</sub> =40V		0.50		μs
ts	Storage time			1.80		μs
t <sub>f</sub>	Fall time	, voc-10 v		0.60		μs

## ♦ h<sub>FE</sub> classifications

Υ	Р	G
50-100	70-140	90-180

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#### PACKAGE OUTLINE



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