

DESCRIPTION

- Collector-Emitter Breakdown Voltage

$$-V_{(BR)CEO} = 200V(\text{Min})$$

- Collector-Emitter Saturation Voltage

$$-V_{CE(sat)}: 2.5V(\text{Max}) @ I_C = 10A$$

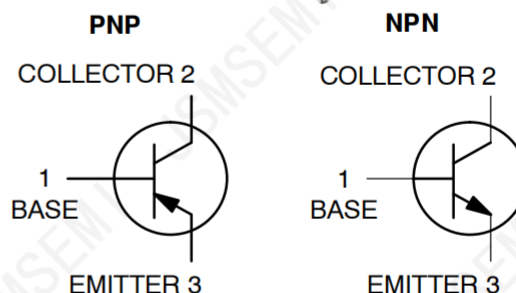
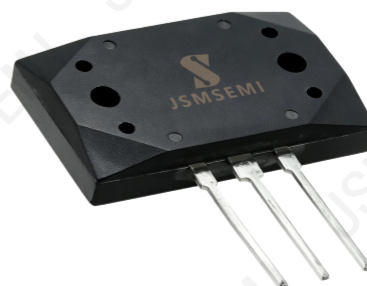
- Complement to Type

2SA1494-JSM (PNP)

2SC3858-JSM (NPN)

APPLICATIONS

- For Audio And General Purpose Applications.



ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V_{CEO}	Collector-Emitter Voltage	200	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	17	A
I_B	Base Current-Continuous	5	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	200	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th,j-c}$	Thermal Resistance, Junction to Case	0.63	$^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}\text{C}$ unless otherwise specified)

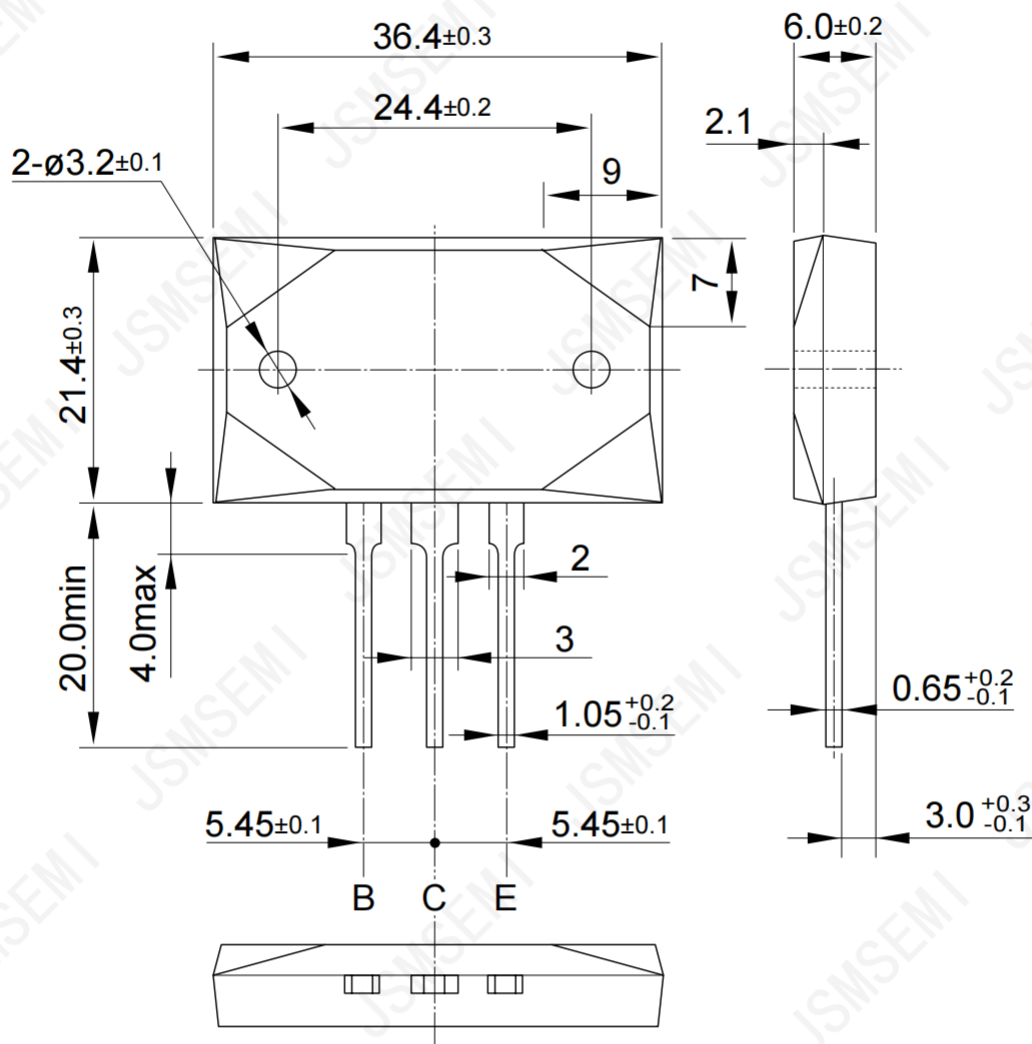
SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Sustaining Voltage	$I_C=10\text{mA}; I_B=0$	200	--	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=200\text{V}; I_E=0$	--	100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=6\text{V}; I_C=0$	--	100	μA
h_{FE}	DC Current Gain	$I_C=8\text{A}; V_{CE}=4\text{V}$	50	180	--
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=10\text{A}; I_B=1\text{A}$	--	2.5	V

Ordering Information

Order number	Package	Marking	Operation Temperature Range	MSL Grade	Ship,Quantity	Green
2SA1494-JSM	MT-200	2SA1494	-55 to 150°C	1	Box,250	Rohs
2SC3858-JSM	MT-200	2SC3858	-55 to 150°C	1	Box,250	Rohs

Package Information

MT-200



Revision History

Rev.	Change	Date
V1.0	Initial version	6/27/2019

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