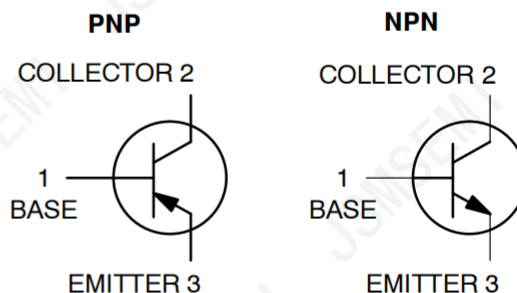
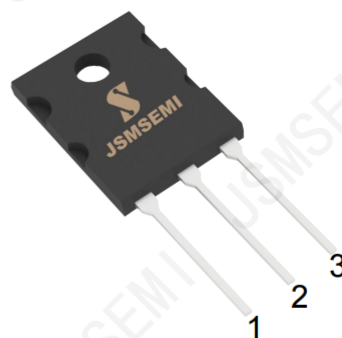


DESCRIPTION

- High Collector-Emitter Breakdown Voltage
: $V_{(BR)CEO} = 260V(\text{Min})$
- High DC Current Gain
: $h_{FE} = 50\text{Min} @ I_C = 8\text{Adc}$
- Complement to Type
MJL21194G-JSM (NPN)
MJL21193G-JSM (PNP)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Perforated Emitter technology
- High power audio output, disk head positioners linear applications



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

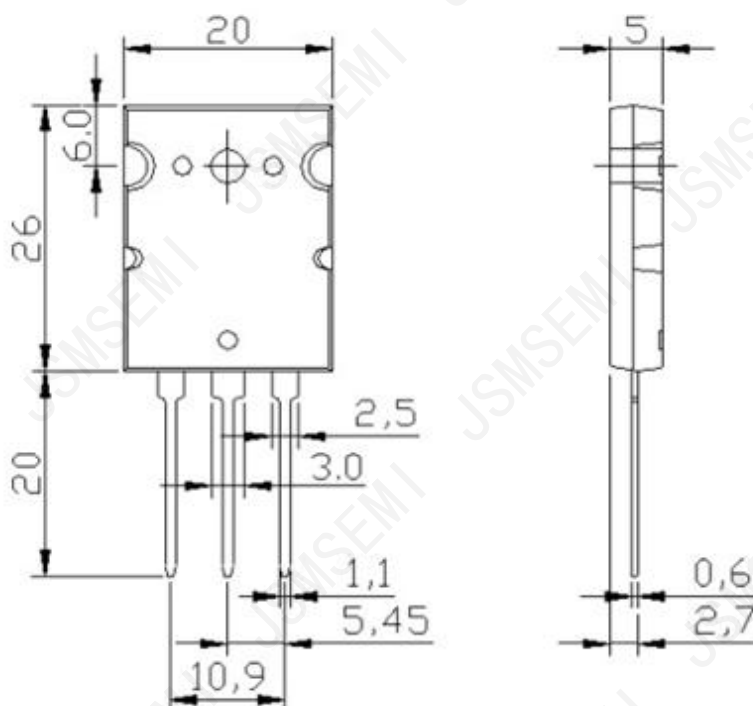
SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	260	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current-Continuous	16	A
I_B	Base Current-Continuous	1.5	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	200	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=50\text{mA}; I_B=0$	260		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=8.0\text{A}; I_B=0.8\text{A}$		1.0	V
$V_{BE(sat)}$	Emitter-Base Saturation Voltage	$I_C=8.0\text{A}; I_B=0.8\text{A}$		1.4	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=8\text{A}; V_{CE}=5\text{V}$		1.5	V
I_{CEO}	Collector Cutoff Current	$V_{CE}=200\text{V}; I_E=0$		100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}; I_C=0$		5.0	μA
h_{FE-1}	DC Current Gain	$I_C=0.1\text{A}; V_{CE}=5\text{V}$	80	250	
h_{FE-2}	DC Current Gain	$I_C=1\text{A}; V_{CE}=5\text{V}$	80	250	
h_{FE-3}	DC Current Gain	$I_C=3\text{A}; V_{CE}=5\text{V}$	80	250	
h_{FE-4}	DC Current Gain	$I_C=5\text{A}; V_{CE}=5\text{V}$	80	250	
h_{FE-5}	DC Current Gain	$I_C=8\text{A}; V_{CE}=5\text{V}$	50		
h_{FE-6}	DC Current Gain	$I_C=15\text{A}; V_{CE}=5\text{V}$	10		

Package Information

TO-3PL(TO-264)



Ordering Information

Order number	Package	Marking	Operation Temperature Range	MSL Grade	Ship,Quantity	Green
MJL21194G-JSM	TO-3PL	MJL21194	-55 to 150°C	1	Tube,250	Rohs
MJL21193G-JSM	TO-3PL	MJL21193	-55 to 150°C	1	Tube,250	Rohs

Revision History

Rev.	Change	Date
V1.0	Initial version	5/30/2019

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