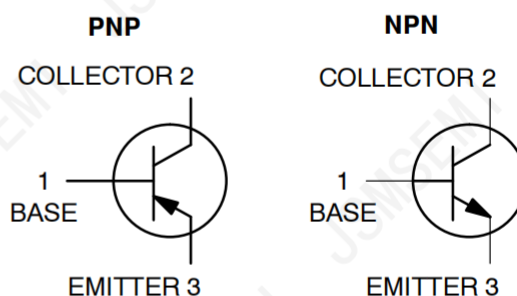
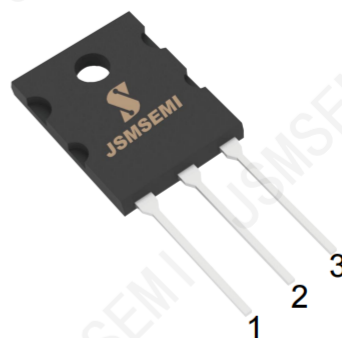


DESCRIPTION

- 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($T_a=25^{\circ}\text{C}$)

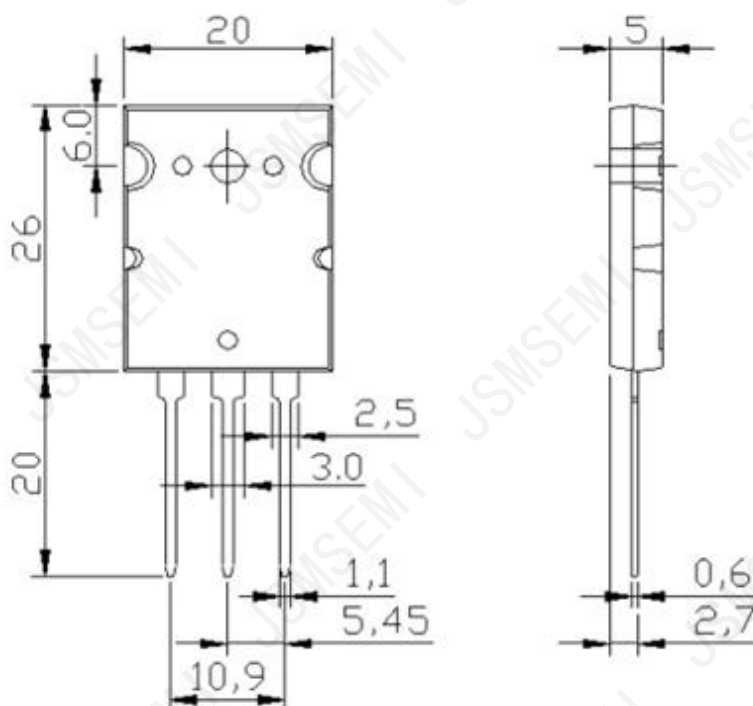
SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	260	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current-Continuous	16	A
I_B	Base Current-Continuous	1.5	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	200	W
T_J	Junction Temperature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

Important Notice

JSMSEMI Semiconductor (JSMSEMI) PRODUCTS ARE NEITHER DESIGNED NOR INTENDED FOR USE IN MILITARY AND/OR AEROSPACE, AUTOMOTIVE OR MEDICAL DEVICES OR SYSTEMS UNLESS THE SPECIFIC JSMSEMI PRODUCTS ARE SPECIFICALLY DESIGNATED BY JSMSEMI FOR SUCH USE. BUYERS ACKNOWLEDGE AND AGREE THAT ANY SUCH USE OF JSMSEMI PRODUCTS WHICH JSMSEMI HAS NOT DESIGNATED FOR USE IN MILITARY AND/OR AEROSPACE, AUTOMOTIVE OR MEDICAL DEVICES OR SYSTEMS IS SOLELY AT THE BUYER' S RISK.

JSMSEMI assumes no liability for application assistance or customer product design. Customers are responsible for their products and applications using JSMSEMI products.

Resale of JSMSEMI products or services with statements diferent from or beyond the parameters stated by JSMSEMI for that product or service voids all express and any implied warranties for the associated JSMSEMI product or s ervice. JSMSEMI is not responsible or liable for any such statements.

JSMSEMI All Rights Reserved. Information and data in this document are owned by JSMSEMI wholly and may not be edited, reproduced, or redistributed in any way without the express written consent from JSMSEMI.

Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the JSMSEMI product that you intend to use.

For additional information please contact Kevin@jsmsemi.com or visit www.jsmsemi.com