MSKSEMI 美森科













ESD

TV

TSS

MOV

GDT

PIFD

MJD122(MS)

Product specification





TRANSISTOR (NPN)

FEATURES

- High DC Current Gain
- Electrically Similar to Popular TIP122
- Built-in a Damper Diode at E-C

Reference News

PACKAGE	OUTLINE	Pin Configuration	Marking
1 2 3	1.BASE 2.COLLECTOR 3.EMITTER	COLLECTOR 2 BASE 1 EMITTER 3	MSKSEMI MJD122 MS XXX

MAXIMUM RATINGS (Ta=25 ℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{СВО}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-EmitterVoltage	-100	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current -Continuous	-6	А
Icp*	Collector Current -Pluse	-10	A
Pc	Collector Power Dissipation	1.25	W
T _J ,T _{stg}	Operating Junction and Storage Temperature Range	-55-150	°C

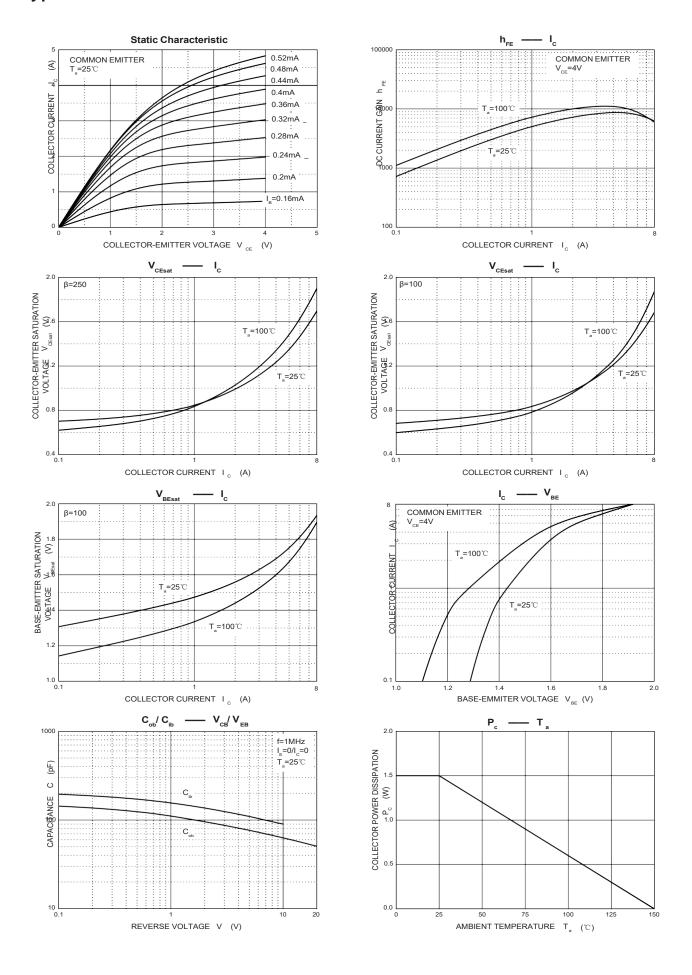


ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	Ic=1mA,I _E =0	100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	Ic=30mA,I _B =0	100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =3mA,I _C =0	5			V
Collector cut-off current	Ісво	V _{CB} = 100V,I _E =0			10	μA
Collector-emitter cut-off current	ICEO	V _{CE} =50V,I _E =0			10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			2	mA
DC automata main	h _{FE(2)}	$V_{CE}=4V,I_{C}=4A$	1000		12000	
DC current gain	h _{FE(3)}	V _{CE} =4V,I _C =8A	100			
Callage and a spritter and a spring time walter an	VCE(sat) (1)	I _C =4A,I _B =16mA			2	V
Collector-emitter saturation voltage	V _{CE} (sat) (2)	I _C =8A,I _B =80mA			4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =8A,I _B =80mA			4.5	V
Base-emitter voltage*	V _{BE}	V _{CE} =4V,I _C =4A			2.8	V
Collector output capacitance	Cob	V _{CB} = 10V,I _E =0,f=0.1MHz			200	pF

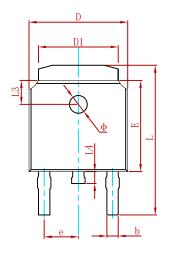


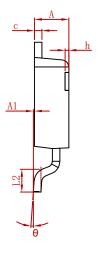
TypicalCharacterisitics

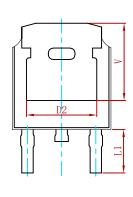




PACKAGE MECHANICAL DATA

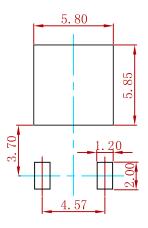






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
b	0.635	0.770	0.025	0.030	
С	0.460	0.580	0.018	0.023	
D	6.500	6.700	0.256	0.264	
D1	5.100	5.460	0.201	0.215	
D2	4.830	REF.	0.190	REF.	
E	6.000	6.200	0.236	0.244	
е	2.186	2.386	0.086	0.094	
L	9.712	10.312	0.382	0.406	
L1	2.900	2.900 REF.		0.114 REF.	
L2	1.400	1.700	0.055	0.067	
L3	1.600 REF.		0.063	REF.	
L4	0.600	1.000	0.024	0.039	
Ф	1.100	1.300	0.043	0.051	
θ	0°	8°	0°	8°	
h	0.000	0.300	0.000	0.012	
V	5.250	REF.	0.207	REF.	

Suggested Pad Layout



Note:

- 1. Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
MJD122(MS)	TO-252	2500



Attention

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all MSKSEMI Semiconductor products described or contained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer'sproducts or equipment.
- MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products (including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, referto the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by MSKSEMI manufacturer:

Other Similar products are found below:

BC559C MCH4017-TL-H MMBT-2369-TR BC546/116 NJVMJD148T4G NTE16 NTE195A IMX9T110 2N4401-A 2N6728 2SA1419T-TD-H 2SB1204S-TL-E 2SC5488A-TL-H FMC5AT148 2N2369ADCSM 2N2907A 2N3904-NS 2N5769 2SC4618TLN CPH6501-TL-E US6T6TR BAX18/A52R BC556/112 IMZ2AT108 MMST8098T146 MCH6102-TL-E BC846B-13-F 2N3879 30A02MH-TL-E NTE13 NTE282 NTE323 NTE350 NTE81 JANTX2N2920L JANSR2N2907AUB CMLT3946EG TR SNSS40600CF8T1G CMLT3906EG TR GRP-DATA-JANS2N2907AUB GRP-DATA-JANS2N2222AUA MMDT3946FL3-7 2N4240 JANS2N3019 MSB30KH-13 2N2221AUB 2SD1815T-TL-E 2N6678 2N2907Ae4 JAN2N3507