

**J201**  
**SILICON**  
**N-CHANNEL JFET**



[www.centrasemi.com](http://www.centrasemi.com)

The CENTRAL SEMICONDUCTOR J201 is an epoxy molded silicon N-Channel Junction Field Effect Transistor designed for battery powered equipment and low level signal applications.



**TO-92 CASE**

**MARKING: FULL PART NUMBER**

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Drain-Gate Voltage	
Gate-Source Voltage	
Continuous Gate Current	
Power Dissipation	
Operating and Storage Junction Temperature	
Thermal Resistance	

SYMBOL		UNITS
$V_{DG}$	40	V
$V_{GS}$	40	V
$I_G$	50	mA
$P_D$	350	mW
$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
$\theta_{JC}$	357	$^\circ\text{C/W}$

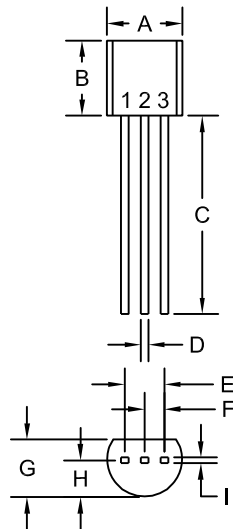
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_{GSS}$	$V_{GS}=25\text{V}, V_{DS}=0$			1.0	nA
$I_{DSS}$	$V_{DS}=20\text{V}, V_{GS}=0$	0.2		1.0	mA
$BV_{GSS}$	$I_G=1.0\mu\text{A}$	42			V
$V_{GS(OFF)}$	$V_{DS}=20\text{V}, I_D=10\text{nA}$	0.3		1.5	V
$g_{FS}$	$V_{DS}=20\text{V}, V_{GS}=0, f=1.0\text{kHz}$	0.5			mS
$C_{iss}$	$V_{DS}=20\text{V}, V_{GS}=0, f=1.0\text{MHz}$		5.0		pF
$C_{rss}$	$V_{DS}=20\text{V}, V_{GS}=0, f=1.0\text{MHz}$		2.0		pF

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TO-92 CASE - MECHANICAL OUTLINE



R1

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
E	0.100		2.54	
F	0.050		1.27	
G	0.125	0.165	3.18	4.19
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

LEAD CODE:

- 1) Drain
- 2) Source
- 3) Gate

MARKING:

FULL PART NUMBER

R3 (22-March 2021)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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### CONTACT US

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