

Distributed by:



[www.Jameco.com](http://www.Jameco.com) ♦ 1-800-831-4242

The content and copyrights of the attached material are the property of its owner.

Jameco Part Number 253948

# Central<sup>TM</sup> Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA  
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

2N5457  
2N5458  
2N5459

N CHANNEL FET

JEDEC TO-92 CASE (SDG)

The CENTRAL SEMICONDUCTOR 2N5457 series types are Silicon N Channel Junction FET's designed for switching and amplifier applications.

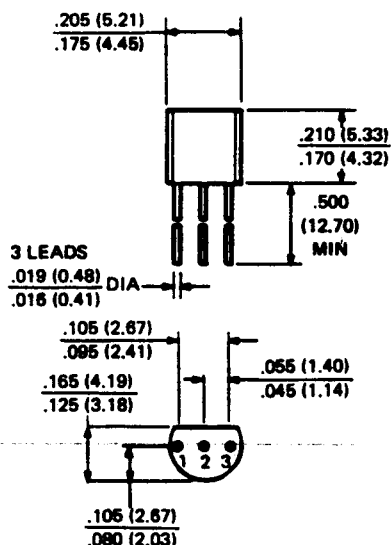
MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

	<u>SYMBOL</u>		<u>UNIT</u>
Drain - Source Voltage	$V_{DS}$	25	V
Drain - Gate Voltage	$V_{DG}$	25	V
Gate - Source Voltage	$V_{GS}$	25	V
Gate Current	$I_G$	10	mA
Power Dissipation	$P_D$	310	mW
Operating and Storage Junction Temperature	$T_J, T_{STG}$	-65 TO +150	$^{\circ}\text{C}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	2N5457		2N5458		2N5459		<u>UNIT</u>
		<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	
$I_{GSS}$	$V_{GS}=15\text{V}$		1.0		1.0		1.0	nA
$I_{GSS}$	$V_{GS}=15\text{V}, T_A=100^{\circ}\text{C}$		200		200		200	nA
$I_{DSS}$	$V_{DS}=15\text{V}$	1.0	5.0	2.0	9.0	4.0	16	mA
$BV_{GSS}$	$I_G=10\mu\text{A}$	25		25		25		V
$V_{GS(OFF)}$	$V_{DS}=15\text{V}$	0.5	6.0	1.0	7.0	2.0	8.0	V
$C_{iss}$	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$		7.0		7.0		7.0	pF
$C_{rss}$	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$		3.0		3.0		3.0	pF
$g_{fs}$	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{kHz}$	1000	5000	1500	5500	2000	6000	$\mu\text{mho}$
$g_{os}$	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$		50		50		50	$\mu\text{mho}$

OUTLINE DRAWING



LEAD CODE:

1. SOURCE
2. DRAIN
3. GATE

This datasheet has been download from:

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

Datasheets for electronics components.