

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

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Manufacturers of World Class Discrete Semiconductors

2N3458  
2N3459  
2N3460

N-CHANNEL JUNCTION  
FIELD EFFECT TRANSISTOR

JEDEC TO-18 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N3458, 2N3459, 2N3460 types are silicon N-Channel Junction Field Effect Transistors designed for low frequency, low noise amplifier applications.

## MAXIMUM RATINGS (T<sub>A</sub> = 25°C)

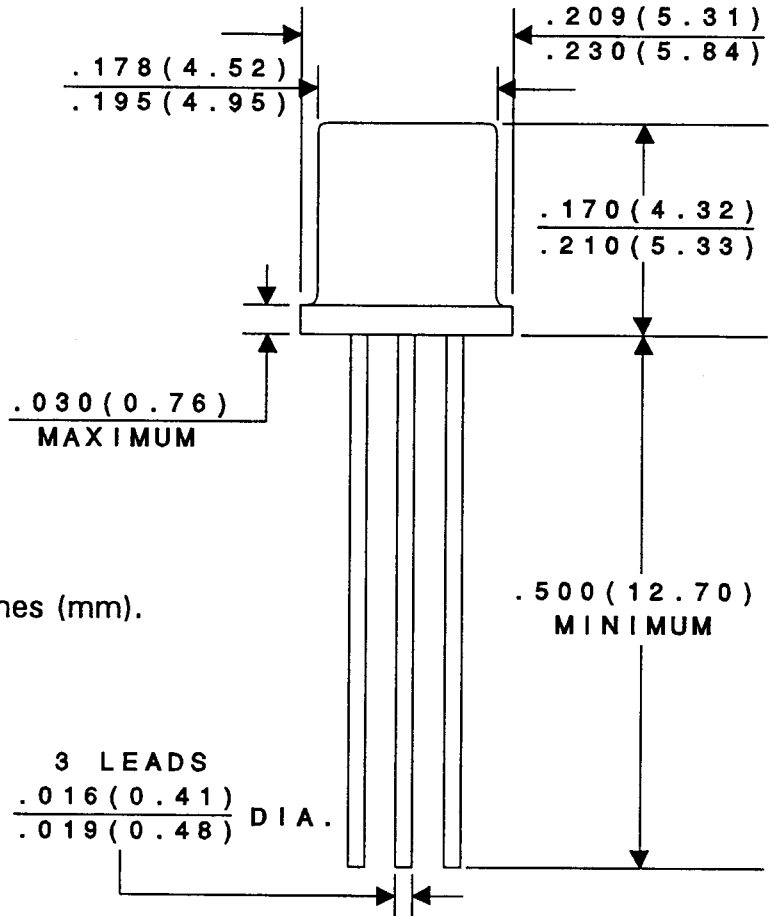
	SYMBOL		UNITS
Drain-Gate Voltage	V <sub>DG</sub>	50	V
Gate-Source Voltage	V <sub>GS</sub>	50	V
Gate Current	I <sub>G</sub>	10	mA
Power Dissipation	P <sub>D</sub>	300	mW
Storage Temperature	T <sub>stg</sub>	-65 to +175	°C

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise noted)

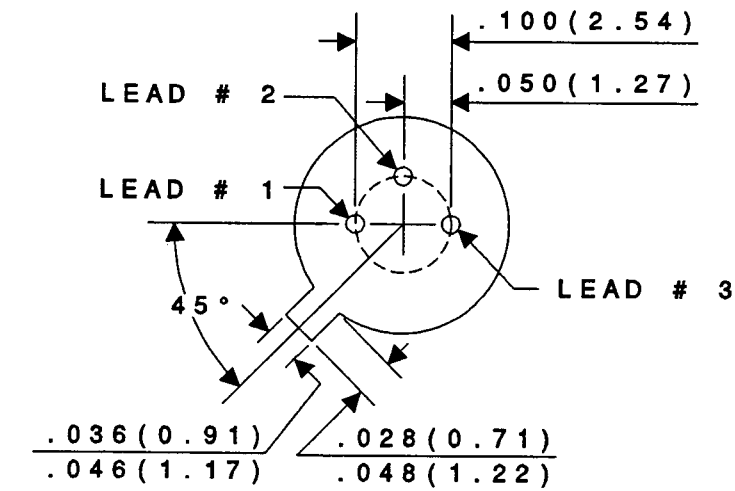
SYMBOL	TEST CONDITIONS	2N3458		2N3459		2N3460		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
I <sub>GSS</sub>	V <sub>GS</sub> = 30V		0.25		0.25		0.25	nA
I <sub>DSS</sub>	V <sub>DS</sub> = 20V	3.0	15	0.8	4.0	0.2	1.0	mA
BV <sub>GSS</sub>	I <sub>G</sub> = 1.0μA	50		50		50		V
V <sub>GS(OFF)</sub>	V <sub>DS</sub> = 20V, I <sub>D</sub> = 1.0μA		7.8		3.4		1.8	V
Y <sub>fs</sub>	V <sub>DS</sub> = 20V, f = 1.0kHz	2500	10000	1500	6000	800	4500	μmhos
Y <sub>os</sub>	V <sub>DS</sub> = 30V, f = 1.0kHz		35		20		5.0	μmhos
C <sub>iss</sub>	V <sub>DS</sub> = 10V		18		18		18	pF
C <sub>oss</sub>	V <sub>DS</sub> = 30V		5.0		5.0		5.0	pF
NF	V <sub>DS</sub> = 10V, f = 20Hz, R <sub>G</sub> = 1.0MΩ		6.0		4.0		4.0	dB

(OVER)

# JEDEC TO-18 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).



LEAD CODE:

- 1) SOURCE
- 2) DRAIN
- 3) GATE