

2N4338 2N4340  
2N4339 2N4341

**SILICON  
N-CHANNEL JFETS**



**TO-18 CASE**



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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 2N4338 Series devices are silicon N-Channel JFETs mounted in a hermetically sealed metal case designed for low level, low noise amplifier applications.

**MARKING: FULL PART NUMBER**

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

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

**SYMBOL**

$V_{GD}$  50  
 $V_{GS}$  50  
 $V_{DS}$  50  
 $I_G$  50  
 $P_D$  325  
 $T_J, T_{stg}$  -65 to +200

**UNITS**

V  
V  
V  
mA  
mW  
 $^\circ\text{C}$

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

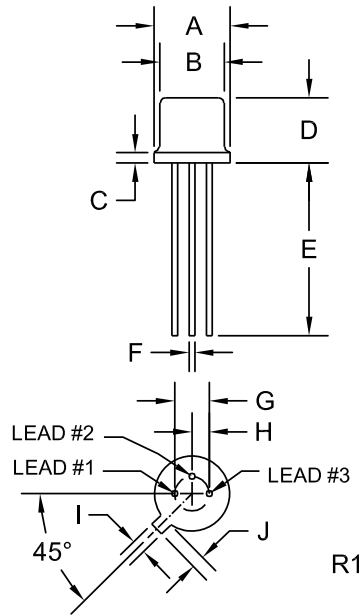
SYMBOL	TEST CONDITIONS	2N4338		2N4339		2N4340		2N4341		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
$I_{GSS}$	$V_{GS}=30\text{V}, V_{DS}=0$	-	0.1	-	0.1	-	0.1	-	0.1	nA
$I_{DSS}$	$V_{DS}=15\text{V}, V_{GS}=0$	0.2	0.6	0.5	1.5	1.2	3.6	3.0	9.0	mA
$BV_{GSS}$	$I_G=1.0\mu\text{A}$	50	-	50	-	50	-	50	-	V
$V_{GS(OFF)}$	$V_{DS}=15\text{V}, I_D=0.1\mu\text{A}$	0.3	1.0	0.6	1.8	1.0	3.0	2.0	6.0	V
$ y_{fs} $	$V_{DS}=15\text{V}, f=1.0\text{kHz}$	0.6	1.8	0.8	2.4	1.3	3.0	2.0	4.0	mS
$ y_{os} $	$V_{DS}=15\text{V}, f=1.0\text{kHz}$	-	5.0	-	15	-	30	-	60	$\mu\text{S}$
$C_{iss}$	$V_{DS}=15\text{V}, f=1.0\text{MHz}$	-	6.0	-	6.0	-	6.0	-	6.0	pF
$C_{rss}$	$V_{DS}=15\text{V}, f=1.0\text{MHz}$	-	2.0	-	2.0	-	2.0	-	2.0	pF
NF	$V_{DS}=15\text{V}, f=1.0\text{kHz}, R_G=1.0\text{M}\Omega$	-	1.0	-	1.0	-	1.0	-	1.0	dB

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TO-18 CASE - MECHANICAL OUTLINE



**LEAD CODE:**

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

**MARKING: FULL PART NUMBER**

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.209	0.230	5.31	5.84
B (DIA)	0.178	0.195	4.52	4.95
C	-	0.030	-	0.76
D	0.170	0.210	4.32	5.33
E	0.500	-	12.70	-
F (DIA)	0.016	0.019	0.41	0.48
G (DIA)	0.100		2.54	
H	0.050		1.27	
I	0.036	0.046	0.91	1.17
J	0.028	0.048	0.71	1.22

TO-18 (REV: R1)

R1 (3-August 2016)

## 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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### CONTACT US

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