2N3819

SILICON N-CHANNEL JFET



www.centralsemi.com

The CENTRAL SEMICONDUCTOR 2N3819 is a silicon N-Channel JFET designed for RF amplifier and mixer applications.



MARKING: FULL PART NUMBER

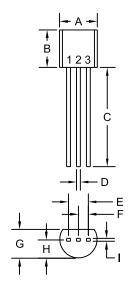
MAXIMUM R	ATINGS: (T _A =25°C)	SYMBOL		UNITS
Drain-Gate Vo	oltage	V_{DG}	25	V
Drain-Source	Voltage	V_{DS}	25	V
Gate-Source	Voltage	V_{GS}	25	V
Continuous G	ate Current	I_{G}	10	mA
Power Dissipa	ation	P_{D}	360	mW
Operating and Storage Junction Temperature		T_J , T_{stg}	-65 to +150	°C
	CHARACTERISTICS: (T _A =25°C u	nless otherwise no		
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
IGSS	V _{GS} =15V		2.0	nA
IGSS	V _{GS} =15V, T _A =100°C		2.0	μΑ
IDSS	V _{DS} =15V	2.0	20	mA
BVGSS	I _G =1.0μA	25		V
V _{GS(OFF)}	V_{DS} =15V, I_{D} =2.0nA		8.0	V
V_{GS}	V _{DS} =15V, I _D =200μA	0.5	7.5	V
Y _{fs}	V_{DS} =15V, V_{GS} =0, f=1.0MHz	2.0	6.5	mS
Y _{fs}	V_{DS} =15V, V_{GS} =0, f=100MHz	1.6		mS
Yos	V_{DS} =15V, V_{GS} =0, f=1.0kHz		50	μS
C_{iss}	V_{DS} =15V, V_{GS} =0, f=1.0MHz		8.0	pF
C_{rss}	V_{DS} =15V, V_{GS} =0, f=1.0MHz		4.0	pF

2N3819

SILICON N-CHANNEL JFET



TO-92 CASE - MECHANICAL OUTLINE



	DIMENSIONS						
INCHES		MILLIMETERS					
MIN	MAX	MIN	MAX				
0.175	0.205	4.45	5.21				
0.170	0.210	4.32	5.33				
0.500	-	12.70	-				
0.016	0.022	0.41	0.56				
0.100		2.54					
0.050		1 . 27					
0.125	0.165	3.18	4.19				
0.080	0.105	2.03	2.67				
0.015		0.38					
	MIN 0.175 0.170 0.500 0.016 0.1 0.0 0.125 0.080	MIN MAX 0.175 0.205 0.170 0.210 0.500 - 0.016 0.022 0.100 0.050 0.125 0.165 0.080 0.105	MIN MAX MIN 0.175 0.205 4.45 0.170 0.210 4.32 0.500 - 12.70 0.016 0.022 0.41 0.100 2. 2.0.050 0.125 0.165 3.18 0.080 0.105 2.03				

TO-92 (REV: R1)

LEAD CODE:

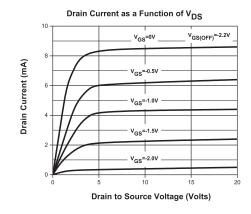
- 1) Drain
- 2) Gate
- 3) Source

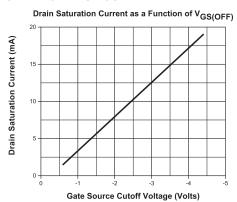
MARKING:

FULL PART NUMBER

TYPICAL ELECTRICAL CHARACTERISTICS

R1



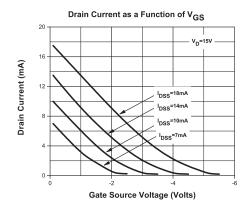


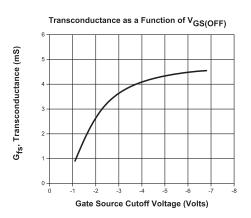
R1 (9-January 2014)

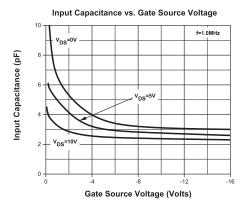
2N3819

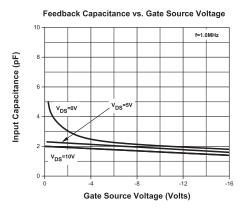
SILICON N-CHANNEL JFET

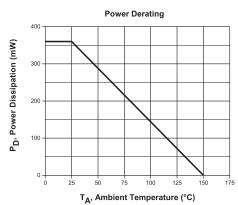












R1 (9-January 2014)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2nd 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

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com