2N5949 2N5951 2N5952 2N5953

SILICON N-CHANNEL JFETS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5949 Series devices are silicon N-Channel JFETs designed for switching, RF amplifier and mixer applications where low capacitance is desired.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Gate-Source Voltage	V_{GS}	30	V
Drain-Gate Voltage	V_{DG}	30	V
Gate Current	IG	10	mA
Power Dissipation	P_{D}	360	mW
Operating and Storage Junction Temperature	T_J , T_{sta}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)
2N5949
2N5951

LLLOTRIOAL	CHARACTERISTICS. (1A-25)		5949		5 951	2N5	952	2N5	5953	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
I _{GSS}	V_{GS} =15V, V_{DS} =0	-	1.0	-	1.0	-	1.0	-	1.0	nA
I _{GSS}	V_{GS} =15V, V_{DS} =0, T_{A} =100°C	-	200	-	200	-	200	-	200	nA
I _{DSS}	V_{DS} =15V, V_{GS} =0	12	18	7.0	13	4.0	8.0	2.5	5.0	mA
BVGSS	I _G =1.0μA	30	-	30	-	30	-	30	-	V
V_{GS}	V_{DS} =15V, I_{D} =1.2mA	2.25	6.0	-	-	-	-	-	-	V
V_{GS}	V_{DS} =15V, I_D =0.7mA	-	-	1.3	4.5	-	-	-	-	V
V_{GS}	V_{DS} =15V, I_D =0.4mA	-	-	-	-	0.75	3.0	-	-	V
V_{GS}	V_{DS} =15V, I_{D} =0.25mA	-	-	-	-	-	-	0.5	2.5	V
V _{GS(OFF)}	V _{DS} =15V, I _D =100nA	3.0	7.0	2.0	5.0	1.3	3.5	8.0	3.0	V
Уfs	V_{DS} =15V, V_{GS} =0, f=1.0kHz	3.5	7.5	3.5	6.5	2.0	6.5	2.0	6.5	mS
y _{os}	V_{DS} =15V, V_{GS} =0, f=1.0kHz	-	75	-	75	-	50	-	50	μS
C _{iss}	V_{DS} =15V, V_{GS} =0, f=1.0MHz	-	6.0	-	6.0	-	6.0	-	6.0	pF
C _{rss}	V_{DS} =15V, V_{GS} =0, f=1.0MHz	-	2.0	-	2.0	-	2.0	-	2.0	pF
^r ds(on)	V_{GS} =0, I_D =0, f=1.0kHz	-	200	-	250	-	300	-	375	Ω
9 _{is}	V_{DS} =15V, V_{GS} =0, f=100MHz	-	250	-	250	-	250	-	250	μS
9 _{fs}	V_{DS} =15V, V_{GS} =0, f=100MHz	3.0	7.5	3.0	6.5	1.0	6.5	1.0	6.5	mS
g _{os}	V_{DS} =15V, V_{GS} =0, f=100MHz	-	150	-	100	-	75	-	50	μS
NF	V_{DS} =15V, V_{GS} =0, f=100MHz,									
	$R_G=1.0k\Omega$	-	5.0	-	5.0	-	5.0	-	5.0	dB
NF	V_{DS} =15V, V_{GS} =0, f=1.0kHz,									
	R_G =1.0M Ω	-	2.0	-	2.0	-	2.0	-	2.0	dB
V_N	V_{DS} =15V, V_{GS} =0, f=1.0kHz	-	100	-	100	-	100	-	100	nV/√Hz

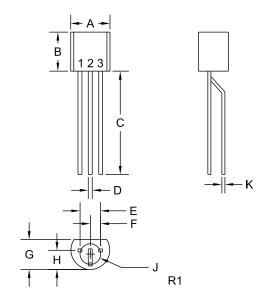
R1 (25-April 2018)

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TO-92-18R CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INC	HES	MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A (DIA)	0.175	0.205	4.45	5.21	
В	0.170	0.210	4.32	5.33	
С	0.500	-	12.70	-	
D	0.016	0.022	0.41	0.56	
Е	0.100		2.54		
F	0.050		1.27		
G	0.125	0.165	3.18	4.19	
Н	0.080	0.105	2.03	2.67	
J (DIA)	0.100		2.54		
K	0.015		0.38		

TO-92-18R (REV: R1)

LEAD CODE:

- 1) Gate 2) Source 3) Drain

MARKING:

FULL PART NUMBER

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 guick 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

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).

CONTACT US

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Product End of Life Notification

PDN ID:	PDN01101
Notification Date:	1/18/19
Last Buy Date:	7/18/19
Last Shipment Date	1/18/20

Summary: The Junction Field Effect Transistors (JFETs) listed below are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Replacement
N/A, Stock Only

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002