

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

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Manufacturers of World Class Discrete Semiconductors

CMPFJ310

SURFACE MOUNT  
SILICON N-CHANNEL JFET

SOT-23 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR CMPFJ310 type is a epoxy molded N-Channel Silicon Junction Field Effect Transistor manufactured in an SOT-23 case, designed for VHF/UHF amplifier applications. Marking code is 6T.

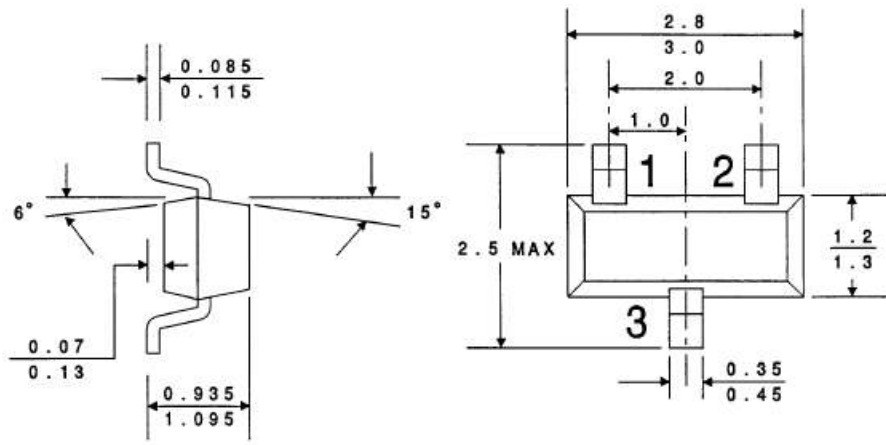
## MAXIMUM RATINGS (T<sub>A</sub> = 25°C)

	SYMBOL		UNITS
Drain-Source Voltage	V <sub>DS</sub>	25	V
Gate-Source Voltage	V <sub>GS</sub>	25	V
Gate Current	I <sub>G</sub>	10	mA
Power Dissipation	P <sub>D</sub>	350	mW
Operating and Storage			
Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	θ <sub>JA</sub>	357	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>GSS</sub>	V <sub>GS</sub> = 15V			1.0	nA
I <sub>GSS</sub>	V <sub>GS</sub> = 15V, T <sub>A</sub> = 125°C			1.0	μA
I <sub>DSS</sub>	V <sub>DS</sub> = 10V, V <sub>GS</sub> = 0	24		60	mA
BV <sub>GSS</sub>	I <sub>G</sub> = 1.0μA	25			V
V <sub>GS(off)</sub>	V <sub>DS</sub> = 10V, I <sub>D</sub> = 1.0mA	2.0		6.5	V
V <sub>GS(f)</sub>	I <sub>G</sub> = 1.0mA, V <sub>DS</sub> = 0			1.0	V
Y <sub>fs</sub>	V <sub>DS</sub> = 10V, I <sub>D</sub> = 10mA, f = 1.0kHz	8.0		18	mmhos
Y <sub>os</sub>	V <sub>DS</sub> = 10V, I <sub>D</sub> = 10mA, f = 1.0kHz			250	μmhos
C <sub>iss</sub>	V <sub>GS</sub> = 10V, V <sub>DS</sub> = 0, f = 1.0MHz			5.0	pF
C <sub>rss</sub>	V <sub>GS</sub> = 10V, V <sub>DS</sub> = 0, f = 1.0MHz			2.5	pF
ē <sub>n</sub>	V <sub>DS</sub> = 10V, I <sub>D</sub> = 10mA, f = 100Hz		10		nV/√Hz

All Dimensions in mm.



LEAD CODE:

MARKING CODE: 6T

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

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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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**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).

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**CONTACT US**

**Corporate Headquarters & Customer Support Team**

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**Worldwide Distributors:**  
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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.centalsemi.com/terms](http://www.centalsemi.com/terms)



http://www.centalsemi.com

## 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.

Central Part Number	Replacement
BF244B	N/A, Stock Only
BF244C	N/A, Stock Only
BF246A	N/A, Stock Only
BSV79	N/A, Stock Only
BSV80	N/A, Stock Only
CMPFJ310 BK	N/A, Stock Only
CMPFJ310 TR	N/A, Stock Only
PN4302	N/A, Stock Only
PN5033	N/A, Stock Only
2N2608	N/A, Stock Only
2N3820	N/A, Stock Only
2N3955	N/A, Stock Only
2N4340	N/A, Stock Only
2N4341	N/A, Stock Only
2N5115	N/A, Stock Only
2N5953	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@centalsemi.com](mailto:engineering@centalsemi.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.