

CMPFJ175
CMPFJ176

SURFACE MOUNT SILICON
P-CHANNEL JFETS



SOT-23 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPFJ175 and CMPFJ176 are epoxy molded P-Channel JFETs manufactured in an SOT-23 case, designed for low level amplifier applications.

**MARKING CODES: CMPFJ175: 6W
CMPFJ176: 6X**

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

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

SYMBOL		UNITS
V_{GD}	30	V
V_{GS}	30	V
I_G	50	mA
P_D	225	mW
T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
θ_{JA}	556	$^\circ\text{C/W}$

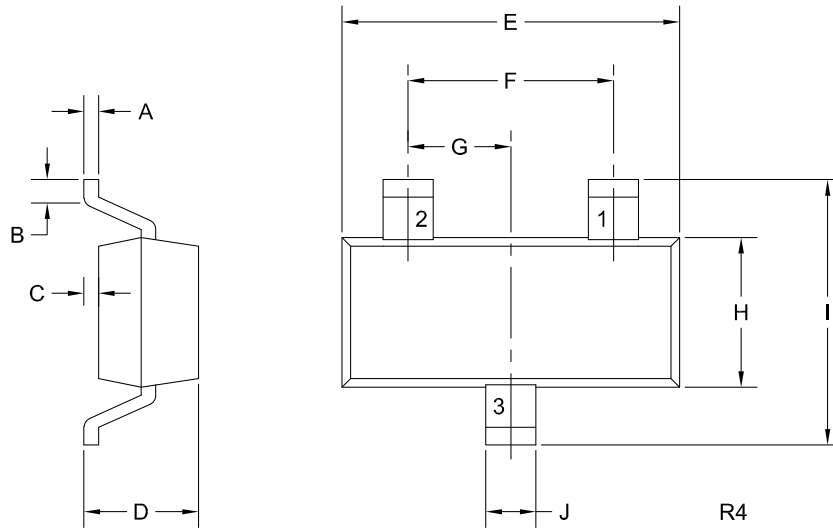
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	CMPFJ175		CMPFJ176		UNITS
		MIN	MAX	MIN	MAX	
I_{GSS}	$V_{GS}=20\text{V}$	-	1.0	-	1.0	nA
I_{DSS}	$V_{DS}=15\text{V}$	7.0	60	2.0	25	mA
BV_{GSS}	$I_G=1.0\mu\text{A}$	30	-	30	-	V
$V_{GS(off)}$	$V_{DS}=15\text{V}, I_D=10\text{nA}$	3.0	6.0	1.0	4.0	V
$r_{DS(ON)}$	$V_{DS}=0.1\text{V}$	-	125	-	250	Ω

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SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:

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

MARKING CODES:

CMPFJ175: 6W
CMPFJ176: 6X

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.044	0.89	1.12
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.104	2.10	2.64
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R4)

R4 (2-May 2019)

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

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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