CMPF4416A

SURFACE MOUNT N-CHANNEL SILICON JFET



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPF4416A type is an epoxy molded N-Channel Silicon Junction Field Effect Transistor manufactured in an SOT-23 case, designed for VHF amplifier and mixer applications.

MARKING CODE: 6BG



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Drain-Source Voltage	V_{DS}	35	V
Gate-Source Voltage	V_{GS}	35	V
Gate Current	IG	10	mA
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

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

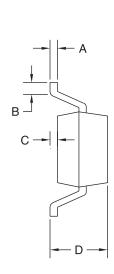
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
STWIDOL		IVIIIV	IVIAA	UNITS
lgss	V _{GS} =20V		1.0	nA
I _{DSS}	V_{DS} =15V, V_{GS} =0	5.0	15	mA
BVGSS	I _G =1.0μA	35		V
V _{GS(off)}	V _{DS} =15V, I _D =1.0nA	2.5	6.0	V
9FS	V_{DS} =15V, V_{GS} =0, f=1.0kHz	4.5	7.5	mS
C _{iss}	V_{DS} =15V, V_{GS} =0, f=1.0MHz		4.5	pF
C _{rss}	V_{DS} =15V, V_{GS} =0, f=1.0MHz		1.2	pF
NF	V_{DS} =15V, V_{GS} =0, f=1.0kHz, R_{G} =1.0M Ω		2.5	dB

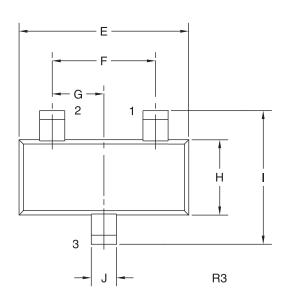
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SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Drain 2) Source 3) Gate

MARKING CODE: 6BG

DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	0.003	0.007	0.08	0.18				
В	0.006	-	0.15	-				
С	-	0.005	-	0.13				
D	0.035	0.043	0.89	1.09				
Е	0.110	0.120	2.80	3.05				
F	0.075		1.90					
G	0.037		0.95					
Н	0.047	0.055	1.19	1.40				
ĺ	0.083	0.098	2.10	2.49				
J	0.014	0.020	0.35	0.50				

SOT-23 (REV: R3)

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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