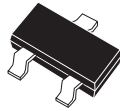


**CMPF4416A**  
**SILICON N-CHANNEL JFET**



**SOT-23 CASE**

**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 is 6BG.**

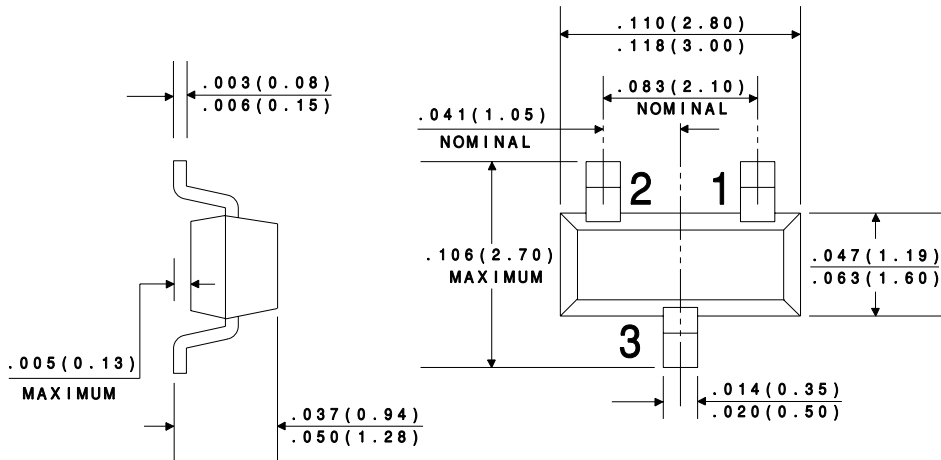
**MAXIMUM RATINGS** ( $T_A=25^{\circ}\text{C}$ )

	<b>SYMBOL</b>		<b>UNITS</b>
Drain-Source Voltage	$V_{DS}$	35	V
Gate-Source Voltage	$V_{GS}$	35	V
Gate Current	$I_G$	10	mA
Power Dissipation	$P_D$	350	mW
Operating and Storage			
Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^{\circ}\text{C}$
Thermal Resistance	$\Theta_{JA}$	357	$^{\circ}\text{C}/\text{W}$

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

<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MIN</b>	<b>MAX</b>	<b>UNITS</b>
$I_{GSS}$	$V_{GS}=20\text{V}$		1.0	nA
$I_{DSS}$	$V_{DS}=15\text{V}, V_{GS}=0$	5.0	15	mA
$BV_{GSS}$	$I_G=1.0\mu\text{A}$	35		V
$V_{GS}(\text{off})$	$V_{DS}=15\text{V}, I_D=1.0\text{nA}$	2.5	6.0	V
$g_{fs}$	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{kHz}$	4.5	7.5	mmhos
$C_{iss}$	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$		4.5	pF
$C_{rss}$	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$		1.2	pF
$N_F$	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{kHz}, R_G=1.0\text{M}\Omega$		2.5	dB

All dimensions in inches (mm).



LEAD CODE:

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