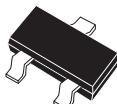


**CMPF4391
CMPF4392
CMPF4393**

N-CHANNEL JFET



SOT-23 CASE

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNITS
Drain-Gate Voltage	V _{GD}	40	V
Gate-Source Voltage	V _{GS}	40	V
Drain-Source Voltage	V _{DS}	40	V
Gate Current	I _G	50	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	CMPF4391		CMPF4392		CMPF4393		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
I _{GSS}	V _{GS} =20V		0.1		0.1		0.1	nA
I _{GSS}	V _{GS} =20V, T _A =100°C		0.2		0.2		0.2	µA
I _{DSS}	V _{DS} =20V	50	150	25	75	5.0	30	mA
I _{D(OFF)}	V _{DS} =20V, V _{GS} =12V		0.1		-		-	nA
I _{D(OFF)}	V _{DS} =20V, V _{GS} =7.0V		-		0.1		-	nA
I _{D(OFF)}	V _{DS} =20V, V _{GS} =5.0V		-		-		0.1	nA
I _{D(OFF)}	V _{DS} =20V, V _{GS} =12V, T _A =100°C		0.2		-		-	µA
I _{D(OFF)}	V _{DS} =20V, V _{GS} =7.0V, T _A =100°C		-		0.2		-	µA
I _{D(OFF)}	V _{DS} =20V, V _{GS} =5.0V, T _A =100°C		-		-		0.2	µA
BV _{GSS}	I _G =1.0µA	40		40		40		V
V _{GS(OFF)}	V _{DS} =20V, I _D =1.0nA	4.0	10	2.0	5.0	0.5	3.0	V
V _{GS(f)}	I _G =1.0mA		1.0		1.0		1.0	V
V _{DS(ON)}	I _D =12mA		0.4		-		-	V
V _{DS(ON)}	I _D =6.0mA		-		0.4		-	V
V _{DS(ON)}	I _D =3.0mA		-		-		0.4	V

Central™
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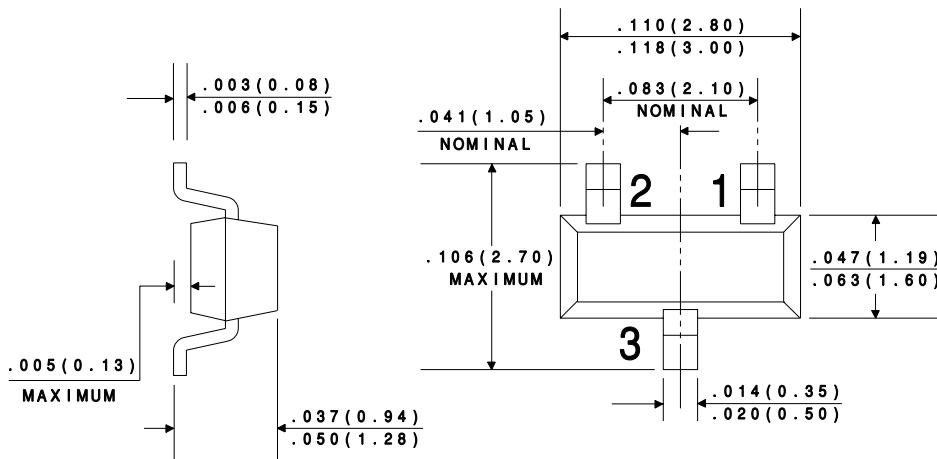
DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPF4391 series types are N-Channel Silicon Field Effect Transistors manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for switching applications.

Marking Codes are 6J, 6K, and 6G Respectively.

SYMBOL	TEST CONDITIONS	CMPF4391		CMPF4392		CMPF4393		
		MIN	MAX	MIN	MAX	MIN	MAX	UNITS
r _{DS(ON)}	I _D =1.0mA, V _{GS} =0	30	60			100	Ω	
r _{ds(ON)}	V _{GS} =0, I _D =0, f=1.0kHz	30	60			100	Ω	
C _{iss}	V _{DS} =20V, V _{GS} =0, f=1.0MHz	14	14			14	pF	
C _{rss}	V _{GS} =12V, V _{DS} =0, f=1.0MHz	3.5	-			-	pF	
C _{rss}	V _{GS} =7.0V, V _{DS} =0, f=1.0MHz	-	3.5			-	pF	
C _{rss}	V _{GS} =5.0V, V _{DS} =0, f=1.0MHz	-	-			3.5	pF	
t _{ON}	I _{D(ON)} =12mA	15	-			-	ns	
t _{ON}	I _{D(ON)} =6.0mA	-	15			-	ns	
t _{ON}	I _{D(ON)} =3.0mA	-	-			15	ns	
t _{OFF}	V _{GS(OFF)} =12V	20	-			-	ns	
t _{OFF}	V _{GS(OFF)} =7.0V	-	35			-	ns	
t _{OFF}	V _{GS(OFF)} =5.0V	-	-			50	ns	

All dimensions in inches (mm).



LEAD CODE:

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