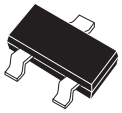
CMPF4391
CMPF4392
CMPF4393

N-CHANNEL JFET



SOT-23 CASE

Central™
Semiconductor Corp.

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.

MAXIMUM RATINGS (T_A=25°C)

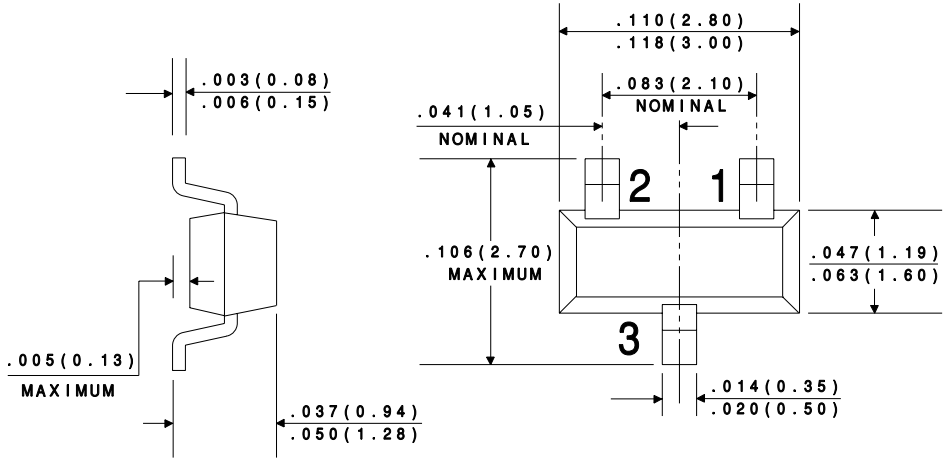
	SYMBOL		UNITS
Drain-Gate Voltage	V_{GD}	40	V
Gate-Source Voltage	V_{GS}	40	V
Drain-Source Voltage	V_{DS}	40	V
Gate Current	I_G	50	mA
Power Dissipation	P_D	350	mW
Operating and Storage Junction Temperature	T_J,T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

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

		CMPF4391		CMPF4392		CMPF4393		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
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

SYMBOL	TEST CONDITIONS	CMPF4391 MIN	CMPF4391 MAX	CMPF4392 MIN	CMPF4392 MAX	CMPF4393 MIN	CMPF4393 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

R2

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