imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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SURFACE MOUNT N-CHANNEL SILICON JFET





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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 CO	DDE:
CMPF4391:	6J
CMPF4392:	6K
CMPF4393:	6G

SYMBOL MAXIMUM RATINGS: (T_A=25°C) UNITS V_{GD} Drain-Gate Voltage 40 V Gate-Source Voltage 40 V VGS **Drain-Source Voltage** V_{DS} 40 V Gate Current I_{G} 50 mΑ Power Dissipation P_D 350 mW Operating and Storage Junction Temperature °C T_J, T_{stg} -65 to +150 Thermal Resistance 357 °C/W Θ_{JA}

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

		CMP	F4391	CMP	F4392	CMP	F4393	
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
IDSS	V _{DS} =20V	50	150	25	75	5.0	30	mA
I _{D(OFF)}	V _{DS} =20V, V _{GS} =12V	-	0.1	-	-	-	-	nA
ID(OFF)	V _{DS} =20V, V _{GS} =7.0V	-	-	-	0.1	-	-	nA
ID(OFF)	V _{DS} =20V, V _{GS} =5.0V	-	-	-	-	-	0.1	nA
ID(OFF)	V _{DS} =20V, V _{GS} =12V, T _A =100°C	-	0.2	-	-	-	-	μA
ID(OFF)	V _{DS} =20V, V _{GS} =7.0V, T _A =100°C	-	-	-	0.2	-	-	μA
ID(OFF)	V _{DS} =20V, V _{GS} =5.0V, T _A =100°C	-	-	-	-	-	0.2	μA
BVGSS	Ι _G =1.0μΑ	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
rDS(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

R5 (27-January 2010)

CMPF4391 CMPF4392 CMPF4393

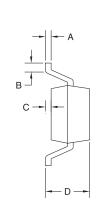


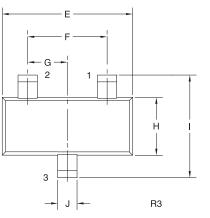
SURFACE MOUNT N-CHANNEL SILICON JFET

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

		CMP	F4391	CMP	F4392	CMP	F4393	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
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

SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

1) Drain 2) Source

3) Gate

MARKING CODES: CMPF4391: 6J CMPF4392: 6K CMPF4393: 6G

DIMENSIONS							
	INC	HES	MILLIM	ETERS			
SYMBOL	MIN	MAX	MIN	MAX			
А	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			
I	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			
SOT-23 (REV: R3)							

R5 (27-January 2010)

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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

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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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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