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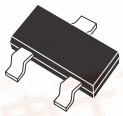
CMPDM7002A

N-CHANNEL ENHANCEMENT-MODE SURFACE MOUNT MOSFET



SOT-23 CASE

Central™ Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPDM7002A is special version of the 2N7002 Enhancement-mode N-Channel Field Effect Transistor, manufactured by the N-Channel DMOS Process, designed for high speed pulsed amplifier and driver applications. This special device offers low $r_{DS(ON)}$ and low $V_{DS\ (ON)}$.

Marking Code is C702A.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNITS
Drain-Source Voltage	V_{DS}	60	V
Drain-Gate Voltage	V_{DG}	60	V
Gate-Source Voltage	V_{GS}	40	V
Continuous Drain Current	I_D	280	mA
Continuous Source Current (Body Diode)	I_S	280	mA
Maximum Pulsed Drain Current	I_{DM}	1.5	A
Maximum Pulsed Source Current	I_{SM}	1.5	A
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
I_{GSSF}	V_{GS}=20V, V_{DS}=0V		100	nA
I_{GSSR}	V_{GS}=20V, V_{DS}=0V		100	nA
I_{DSS}	V_{DS}=60V, V_{GS}=0V		1.0	μA
I_{DSS}	V_{DS}=60V, V_{GS}=0V, T_j=125°C		500	μA
$I_{D(ON)}$	V_{GS}=10V, $V_{DS} \geq 2V_{DS(ON)}$	500		mA
BV_{DSS}	V_{GS}=0V, I_D=10μA	60		V
$V_{GS(th)}$	V_{DS}=V_{GS}, I_D=250μA	1.0	2.5	V
$V_{DS(ON)}$	V_{GS}=10V, I_D=500mA		1.0	V
$V_{DS(ON)}$	V_{GS}=5.0V, I_D=50mA		0.15	V
$r_{DS(ON)}$	V_{GS}=10V, I_D=500mA		2.0	Ω
$r_{DS(ON)}$	V_{GS}=10V, I_D=500mA, T_j=125°C		3.5	Ω
$r_{DS(ON)}$	V_{GS}=5.0V, I_D=50mA		3.0	Ω
$r_{DS(ON)}$	V_{GS}=5.0V, I_D=50mA, T_j=125°C		5.0	Ω
g_{FS}	$V_{DS} \geq 2V_{DS(ON)}$, I_D=200mA	80		mmhos
C_{rss}	V_{DS}=25V, V_{GS}=0, f=1.0MHz		5.0	pF
C_{iss}	V_{DS}=25V, V_{GS}=0, f=1.0MHz		50	pF
C_{oss}	V_{DS}=25V, V_{GS}=0, f=1.0MHz		25	pF
t_{on}	V_{DD}=30V, V_{GS}=10V, I_D=200mA,		20	ns
t_{off}	R_G=25Ω, R_L=150Ω		20	ns
V_{SD}	V_{GS}=0V, I_S=400mA		1.2	V

R0 (05-December 2001)

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Central™
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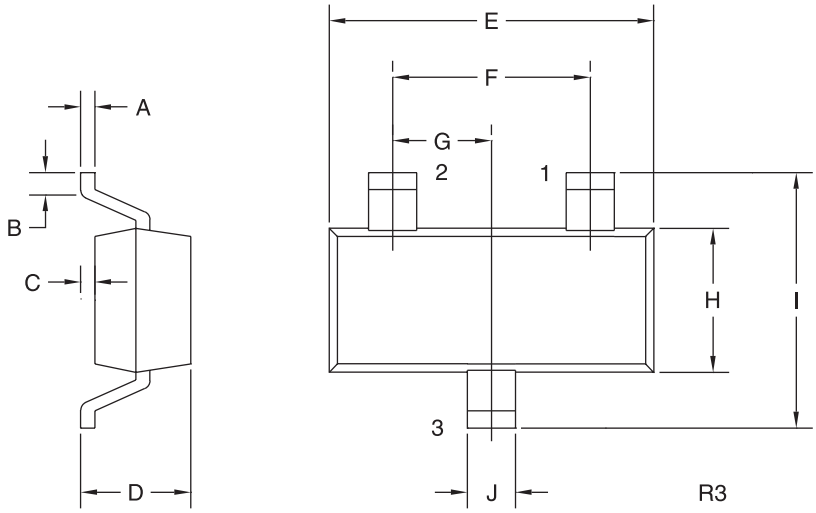
CMPDM7002A

N-CHANNEL
ENHANCEMENT-MODE
SURFACE MOUNT MOSFET

SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:
1) Gate
2) Source
3) Drain

Marking Code: C702A

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	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)

R0 (05-December 2001)