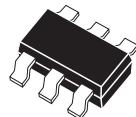


CMXDM7002A

**DUAL
N-CHANNEL
ENHANCEMENT-MODE
SURFACE MOUNT MOSFET**

**SOT-26 CASE****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 PER TRANSISTOR (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} ≥ 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} ≥ 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

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMXDM7002A is special dual 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 Dual Transistor device offers low r_{DS(ON)} and low V_{DS} (ON).

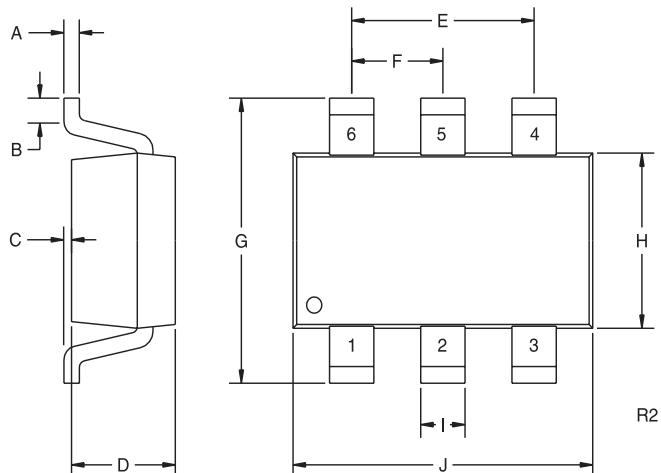
Marking Code is X02A

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CMXDM7002A

DUAL
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SURFACE MOUNT MOSFET

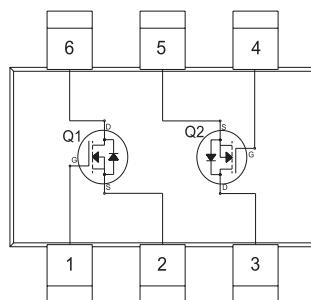
SOT-26 CASE - MECHANICAL OUTLINE



Marking Code: X02A

SYMBOL	DIMENSIONS			
	INCHES	MILLIMETERS	MIN	MAX
A	0.004	0.007	0.11	0.19
B	0.016	-	0.40	-
C	-	0.004	-	0.10
D	0.039	0.047	1.00	1.20
E	0.074	0.075	1.88	1.92
F	0.037	0.038	0.93	0.97
G	0.102	0.118	2.60	3.00
H	0.059	0.067	1.50	1.70
I	0.016	-	0.41	-
J	0.110	0.118	2.80	3.00

SOT-26 (REV: R2)



LEAD CODE:

- 1) Gate Q1
- 2) Source Q1
- 3) Drain Q2
- 4) Gate Q2
- 5) Source Q2
- 6) Drain Q1

R0 (05-December 2001)