

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2N7002DW

Features

 Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Power Dissipation: 0.2W(Tamb=25℃)

Drain Current: 115mADrain-source Voltage: 60V

• Operating Junction Temperature: -55 to +150°C

Storage Temperature: -55 to +150[°]C

Marking: K72

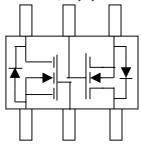
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Тур	Max	Units
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage* (V _{GS} =0Vdc, I _D =10µAdc)		60	70		Vdc
$V_{th(GS)}$	Gate-Threshold Voltage* (V _{DS} =V _{GS} , I _D =250µAdc)		1.0	1.5	2.0	Vdc
I _{GSS}	Gate-body Leakage* (V _{DS} =0Vdc, V _{GS} =±20Vdc)				±10	nAdc
I _{DSS}	Zero Gate Voltage Drain Current* (V _{DS} =60Vdc, V _{GS} =0Vdc) (V _{DS} =60Vdc, V _{GS} =0Vdc, T _j =125°C)				1 500	μAdc
I _{D(ON)}	On-state Drain Current* (V _{DS} =7.5Vdc, V _{GS} =10Vdc)		0.5	1.0		Adc
r _{DS(on)}	Drain-Source On-Resistance* (V _{GS} =5Vdc, I _D =50mAdc) (V _{GS} =10Vdc, I _D =500mAdc)			3.2 4.4	7.5 13.5	Ω
g FS	Forward Transconductance* (V _{DS} =10Vdc, I _D =200mAdc)		80			ms
C _{iss}	Input Capacitance	\/ -2E\/do		22	50	
Coss	Output Capacitance	V_{DS} =25Vdc, V_{GS} =0Vdc		11	25	pF
C_{rSS}	Reverse Transfer Capacitance	f=1MHz		2	5	ρι

Switching

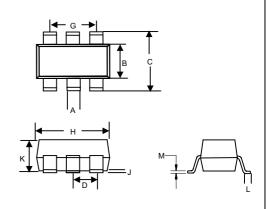
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t _{d(on)}	Turn-on Time	V_{DD} =30Vdc, V_{GEN} =10Vdc		7	20	ns
$t_{d(off)}$	Turn-off Time	R_L =150 Ω , I_D =200mA, R_G =25 Ω		11	20	115

^{*} Pulse test, pulse width ≦ 300 μ s, duty cycle ≦ 20%



N-Channel MOSFET

SOT-363



DIMENSIONS						
	INCHES		М			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.006	.014	0.15	0.35		
В	.045	.053	1.15	1.35		
С	.085	.096	2.15	2.45		
D	.026		0.65Nominal			
G	.047	.055	1.20	1.40		
Н	.071	.087	1.80	2.20		
J		.004		0.10		
K	.035	.043	0.90	1.10		
L	.010	.018	0.26	0.46		
M	.003	.006	0.08	0.15		



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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