

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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2N7002DW

Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 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

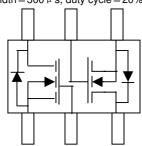
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	\/_OE\/do		22	50	
Coss	Output Capacitance	V_{DS} =25Vdc, V_{GS} =0Vdc		11	25	pF
C_{rSS}	Reverse Transfer Capacitance	f=1MHz		2	5	ρı

Switching

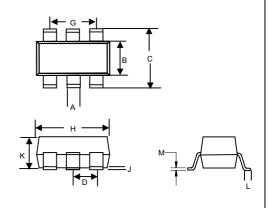
t _{d(on)}	Turn-on Time	V_{DD} =30Vdc, V_{GEN} =10Vdc	 7	20	ns
$t_{\text{d(off)}}$	Turn-off Time	R_L =150 Ω , I_D =200mA, R_G =25 Ω	 11	20	10

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



N-Channel MOSFET

SOT-363



DIMENSIONS					
	INCHES		MM		
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	
Ι	.071	.087	1.80	2.20	
J		.004		0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
М	.003	.006	0.08	0.15	



Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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