

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

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

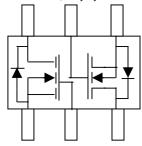
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	\/ _25\/da		22	50	
Coss	Output Capacitance	V_{DS} =25Vdc, V_{GS} =0Vdc		11	25	pF
C_{rSS}	Reverse Transfer Capacitance	f=1MHz		2	5	ы

Switching

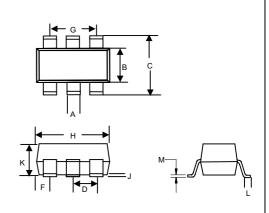
t _{d(on)}	Turn-on Time	V _{DD} =30Vdc, V _{GEN} =10Vdc	 7	20	ns
$t_{\text{d(off)}}$	Turn-off Time	R_L =150 Ω , I_D =200mA, R_G =25 Ω	 11	20	113

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



N-Channel MOSFET

SOT-363



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.004	.012	0.10	0.30	
В	.045	.053	1.15	1.35	
С	.079	.087	2.00	2.20	
D	.026		0.65Nominal		
F	.012	.016	0.30	0.40	
Ι	.071	.087	1.80	2.20	
J		.004		0.10	
K	.035	.039	0.90	1.00	
Ь	.010	.016	0.25	0.40	
М	.004	.016	0.10	0.25	



Ordering Information

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

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