

Micro Commercial Components



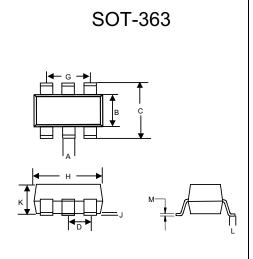
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Power Dissipation: 0.2W(Tamb=25℃)
- Drain Current: 115mA
- Drain-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
$V_{\text{th}(\text{GS})}$	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
Ciss	Input Capacitance			22	50	
Coss	Output Capacitance	V _{DS} =25Vdc, V _{GS} =0Vdc		11	25	
C _{rSS}	Reverse Transfer Capacitance	f=1MHz		2	5	рF
0						



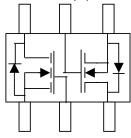
2N7002DW

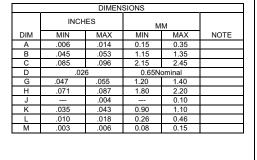
N-Channel MOSFET

Switching

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

* Pulse test, pulse width $\!\leq\!300\,\mu$ s, duty cycle $\!\leq\!20\%$





www.mccsemi.com

Revision: A

1 of 2



Ordering Information :

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com