



Micro Commercial Components

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2N7002DW

N-Channel MOSFET

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°C)
- Drain Current: 115mA
- Drain-source Voltage: 60V
- Operating Junction Temperature: -55 to +150°C
- Storage Temperature: -55 to +150°C
- Marking: K72

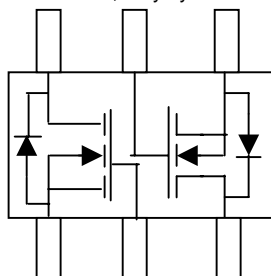
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Typ | Max | Units |
|---------------|---|-----|------------|-------------|-----------|
| $V_{(BR)DSS}$ | Drain-Source Breakdown Voltage* ($V_{GS}=0Vdc, I_D=10\mu Adc$) | 60 | 70 | --- | Vdc |
| $V_{th(GS)}$ | Gate-Threshold Voltage* ($V_{DS}=V_{GS}, I_D=250\mu Adc$) | 1.0 | 1.5 | 2.0 | Vdc |
| I_{GSS} | Gate-body Leakage* ($V_{DS}=0Vdc, V_{GS}=\pm 20Vdc$) | --- | --- | ± 10 | nAdc |
| I_{DSS} | Zero Gate Voltage Drain Current* ($V_{DS}=60Vdc, V_{GS}=0Vdc$) ($V_{DS}=60Vdc, V_{GS}=0Vdc, T_j=125^\circ C$) | --- | --- | 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 | --- | 22 | 50 | pF |
| C_{OSS} | Output Capacitance | --- | 11 | 25 | |
| C_{rSS} | Reverse Transfer Capacitance | --- | 2 | 5 | |

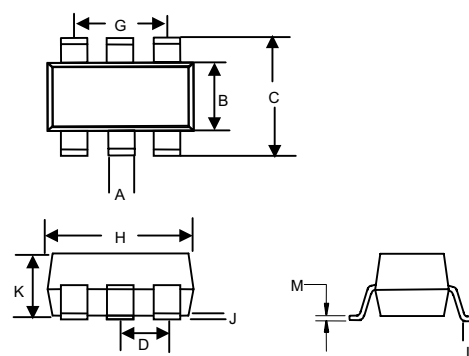
Switching

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

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



SOT-363



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .006 | .014 | 0.15 | 0.35 | |
| B | .045 | .053 | 1.15 | 1.35 | |
| C | .085 | .096 | 2.15 | 2.45 | |
| D | .026 | | 0.65Nominal | | |
| G | .047 | .055 | 1.20 | 1.40 | |
| H | .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 | |



TM

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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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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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