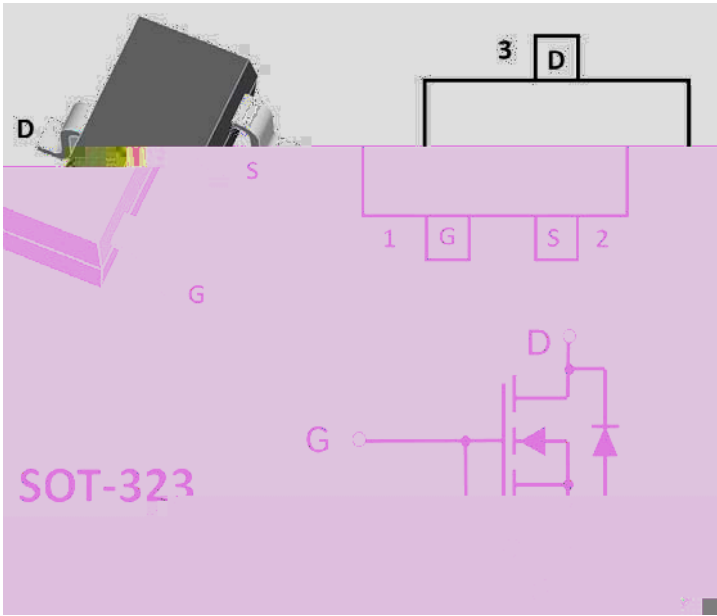


# 2N7002KCWQ

RoHS  
COMPLIANT



DW 9 9 Ø RKP  
" 56 21 DW 9 9 Ø RKP  
" \*DWH 6RXUFH Q6' 85DWR .9 +%0

### General Description

" 7UHQFK 3RZHU 09 026)(7 WHFKQRORJ\  
" 9ROWDJH FRQWUROOHG VPDOO VLJQDO V\  
" /RZ LQSXW &DSDFLWDQFH  
" )DVW 6ZLWFKLQJ 6SHHG  
" /RZ ,QSXW 2XWSXW /HDNDJH  
" 3DUW QR ZLWRKHVXIVL\$(34 4 TXDOLILHG

### Applications

" %DWWHU\ RSHUDWHG V\ VWHPV  
" 6ROLG VWDWH UHOD\ V  
" 'LUHFW ORJLF 077/H0020 WHUIDFH

### Absolute Maximum Ratings

| Parameter  | Symbol   | Limit      | Unit |
|--|--|------------|------|
| 'UDLQ VRXUFH 9ROWDJH                                   | $V_{GS}$   | 9          | V    |
| *DWH VRXUFH 9ROWDJH                                    | $V_{DS}$   | 9          | V    |
| 'UDLQ & XUHHQW   | $I_{GS}$ - # 6WHDG\ 6WDWH<br>$I_{DS}$ - # 6WHDG\ 6WDWH |            | mA   |
| 3XOVHG 'UDLQ & XUHHQW                                  | $I_{GS}$   | 10         | mA   |
| 7RWDO 3RZHU 'LVVLSDWLRQ # 7                            | $P_{tot}$  | 300        | mW   |
| 7KHUPDO 5HVLVWDQFH -XQFWLRQ WR \$PELHQW # 6WHDG\ 6WDWH | $R_{\theta(jc)}$                                       | 5          | °C/W |
| -XQFWLRQ DQG 6WRUDJH 7HPSHUDWXUH 5DQJH                 | $T_{stg}$  | -55 to 175 | °C   |

### Ordering Information

| PREFERRED P/N | PACKING CODE | Marking    | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---------------|--------------|------------|----------------------|-------------------------|----------------------------|---------------|
| 2N7002KCWQ    | 0            | 2N7002KCWQ | 1000                 | 1000                    | 1000                       | 3 UHFO        |



# 2N7002KCWQ

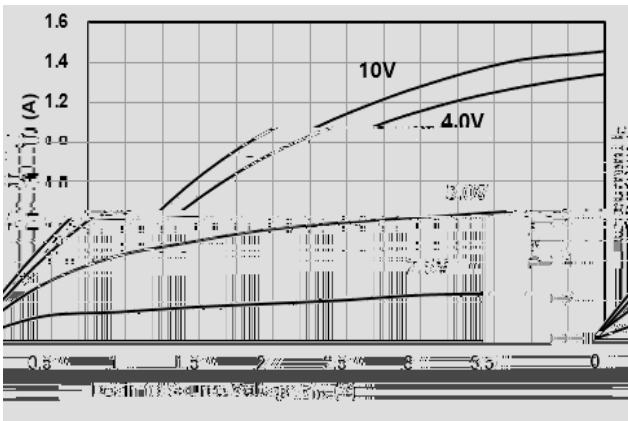
vElectrical Characteristics 7 XQOHVV RWKHUZZLVH QRWHG

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|-----------|--------|------------|-----|-----|-----|-------|
|-----------|--------|------------|-----|-----|-----|-------|

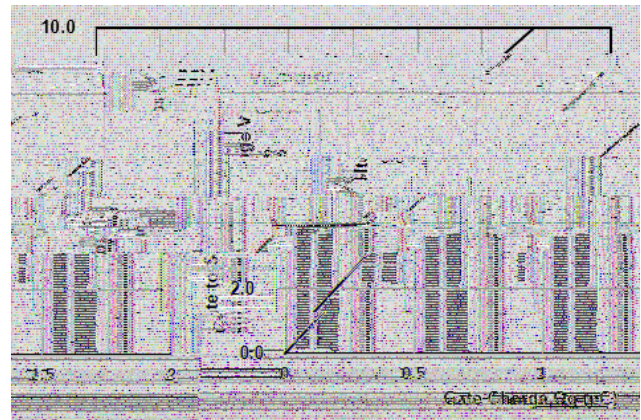
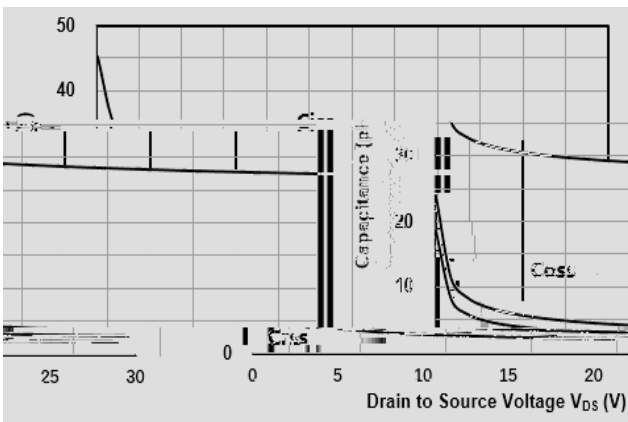


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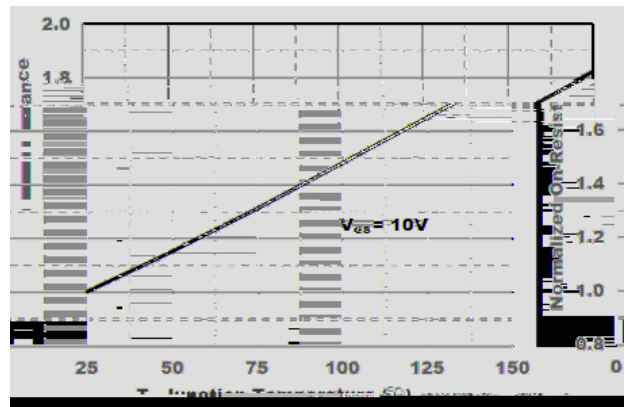
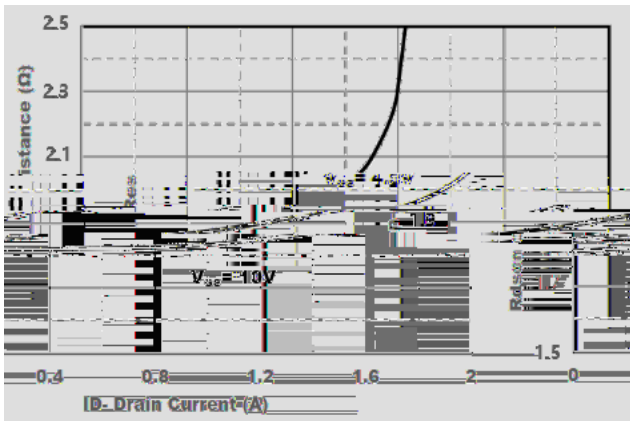
## Typical Performance Characteristics



) SXXU BKDQ FWHULVWLFV JXUH 7UDQLVIHV & KDUDFWHUV



) LJXUH & DSDFLWDQFH & KDUDFWHULVWLFV ) LJXUH \*DWH & K



) LJXUH 'UDLQ 6RXUFH RQ 5HVLVWDQFH LJXUH 'UDLQ 6RXUFH RQ 5

)LJXUH 6DIH 2SHUDWLRQ \$UHD

LQJ ZDYH LJXUH

2N7002KCWQ

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<DQJ]KRX <DQJMLH (OHFWURQLS <pHF[RR\_B\_]À (BQPö (



# 2N7002KCWQ

## Disclaimer

7KH LQIRUPDWLRQ SGRVHMOMHG LQ IRKLVHDIHQJHQRK<BQOMLH (OHFWURQLF 7HFKQRO  
ULJKW WR PDNH F'JHLVHZILRUKRXXWH QSWFLSLURDQXIFRQ/ RGLWSOD\HG KHUHLQ WURGLPVSURQY  
RU RWKHUZLVH

7KH SURGXFW OLVWJCHSHWRIHQ LXV BSHZLQ'KIHQURRQERWL YGHVLJQHG IRU XVH LQ PHG  
VDYLQJ OLIHVXVWEDQJOLHRURUPpOH\DOHJ DOV LXPHEHQK UHVLSEQOLELQIRW\BQWGOEDUR  
P VXFK LPSURSHU XVH RI VDOH

7KLV SXEOLFDFWLRQ SVKSHHUVHDIQVLQURQ#R DWKISFS QLSHG Y)IRRXDQGLRQV LRO HDO/ H QMHRVLPW R X  
KWVZ [Z](#) \DQJMLHRFP `€p0\RXU B#VHVMKBRQIMVLRWDRBWKHU D