



2N7002KDWHQ

N-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	60V
I_D	300mA
$R_{DS(ON)}$ (at $V_{GS}=10V$)	2.0ohm
$R_{DS(ON)}$ (at $V_{GS}=4.5V$)	2.5ohm
ESD protected up to 2.0KV (HBM)	

General Description

Trench Power MV MOSFET technology





Typical Performance Characteristics

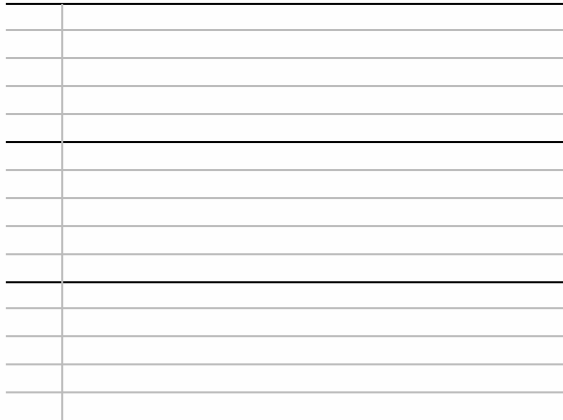


Figure1. Output Characteristics

Figure2. Transfer Characteristics

Figure3. Capacitance Characteristics

Figure4. Gate Charge

Figure5. On-Resistance vs Gate to Source Voltage

Figure6. Normalized On-Resistance

Figure 7. $R_{DS(on)}$ VS Drain Current

Figure 8. Forward characteristics of reverse diode

Figure 9. Normalized breakdown voltage

Figure 10. Normalized Threshold voltage

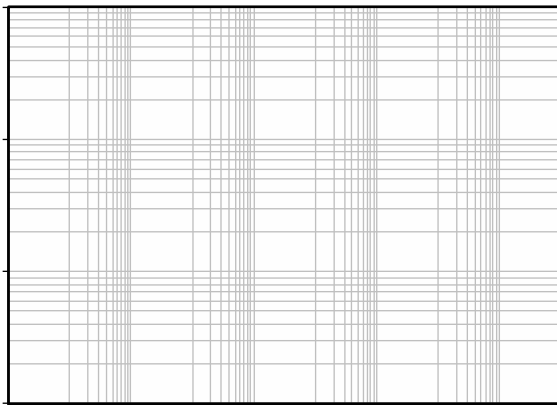


Figure 11. Maximum Transient Thermal Impedance

Figure 12. Safe Operation Area

Test Circuits & Waveforms

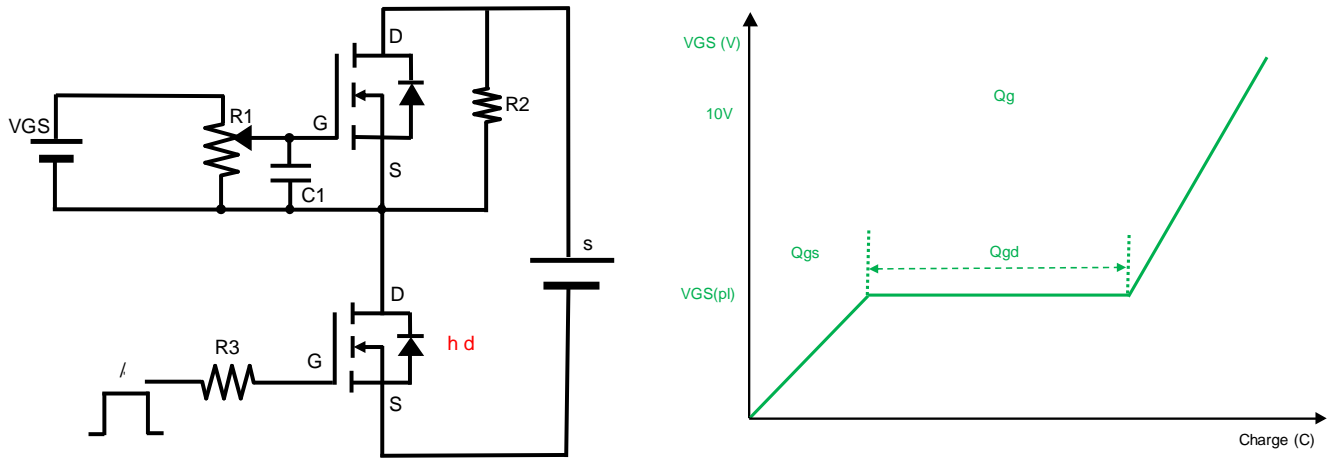


Figure A. Gate Charge Test Circuit & Waveform

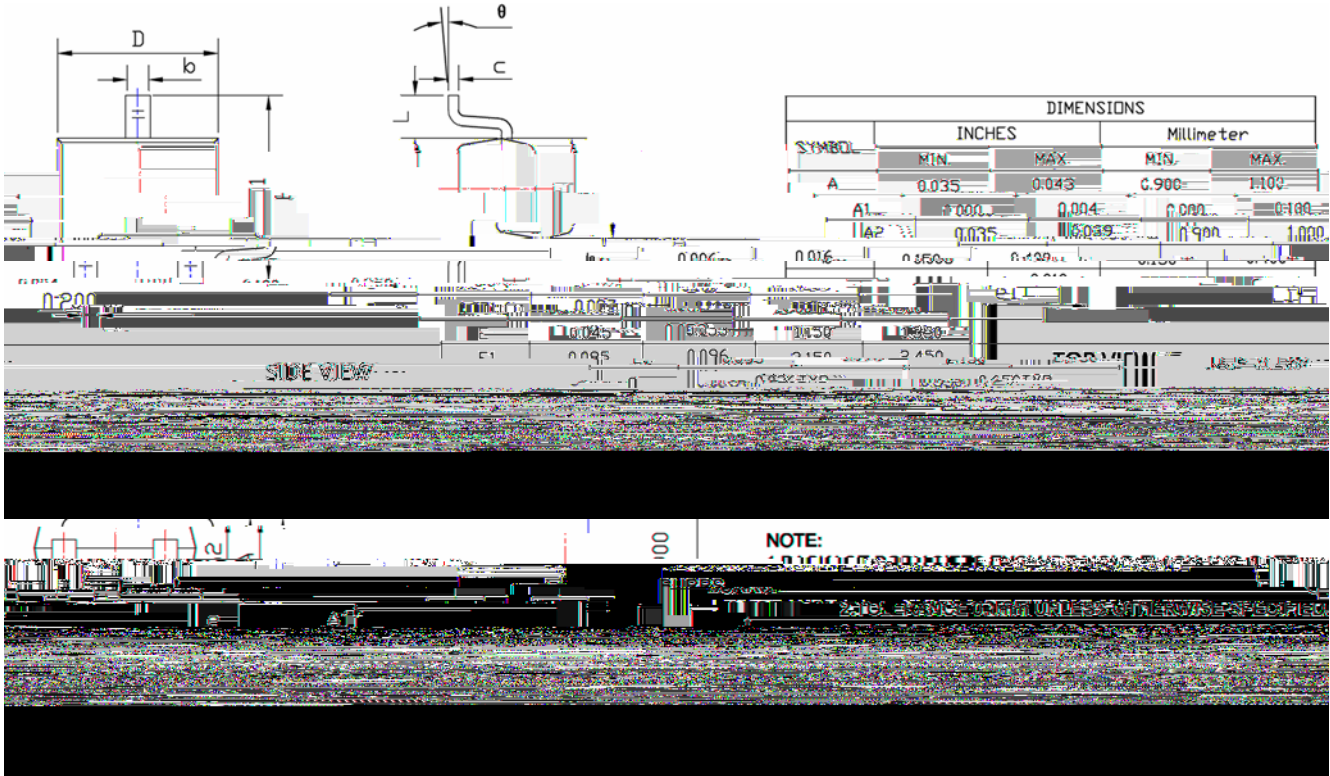
Figure B. Resistive Switching Test Circuit & Waveform

Figure C. Diode Recovery Test Circuit & Waveform



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SOT-323 Package Outline Dimensions



Marking Information

72KD_p

Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. 72KD is Marking Code
4. Body color: Black



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Disclaimer

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