



N-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	60V
I_D	0.3A
" $R_{DS(ON)}$ (at $V_{GS}=10V$)	2.5
$R_{DS(ON)}$ (at $V_{GS}=4.5V$)	3



2N7002KCT

Electrical Characteristics ($T_J=25$ unless otherwise noted)

Parameter	Symbol	
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Typical Electrical and Thermal Characteristics Diagrams

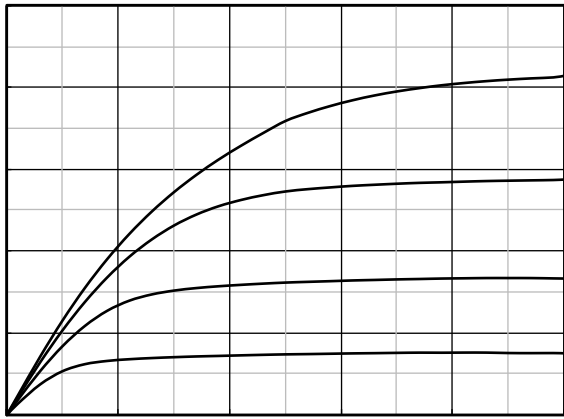


Figure 1. Output Characteristics

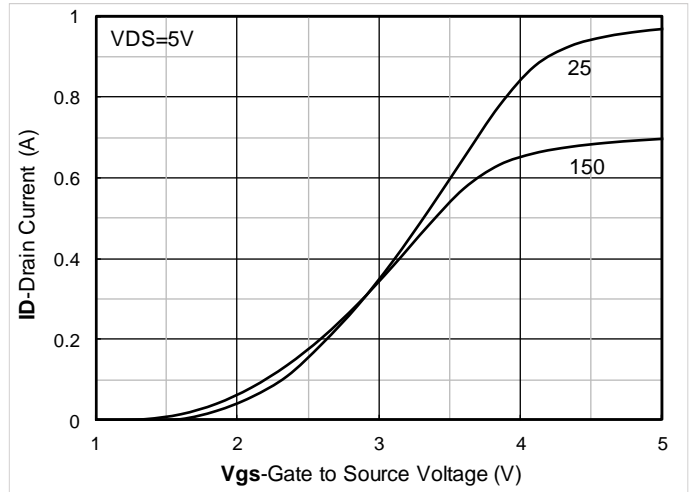


Figure 2. Transfer Characteristics

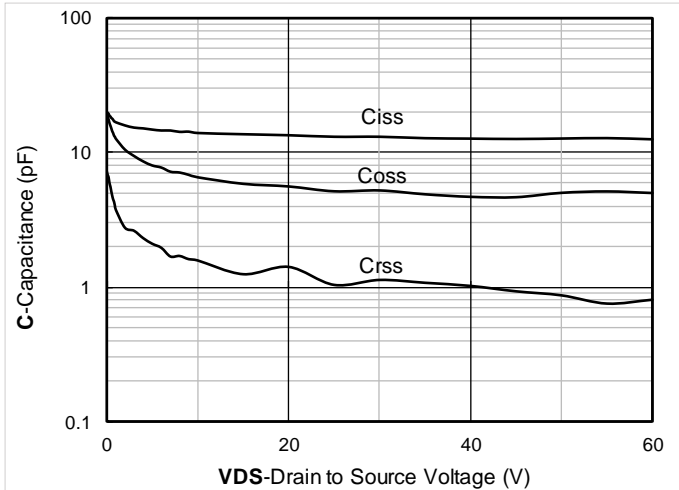


Figure 3. Capacitance Characteristics

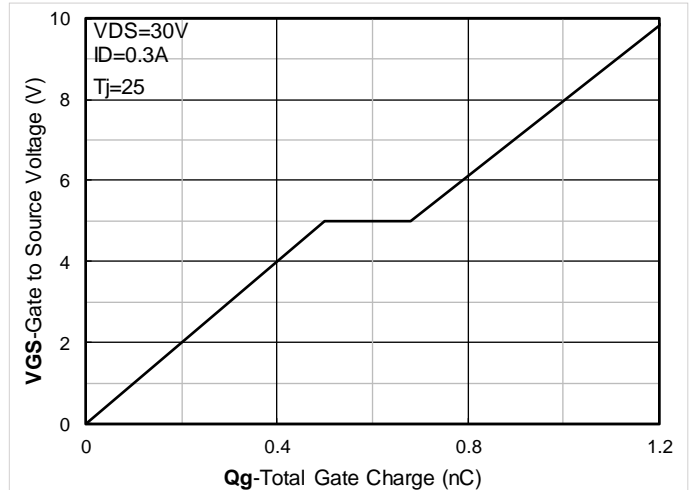


Figure 4. Gate Charge

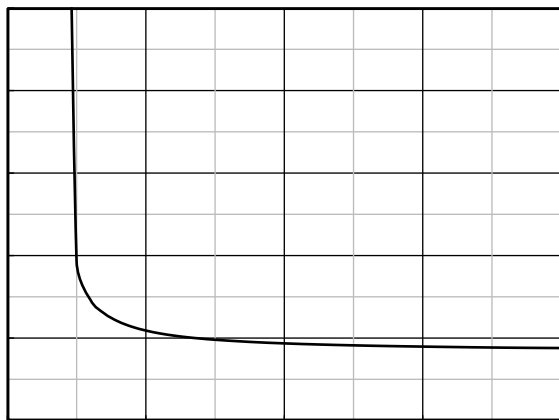


Figure 5. On-Resistance vs. Gate to Source Voltage

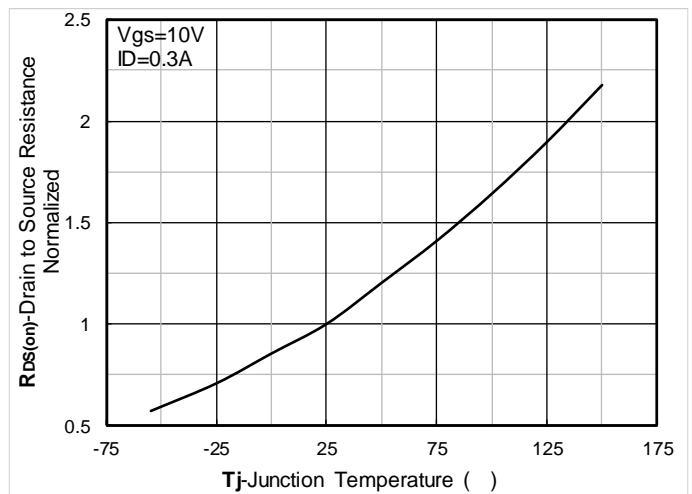


Figure 6. Normalized On-Resistance





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Figure B. Gate Charge Test Circuit & Waveform

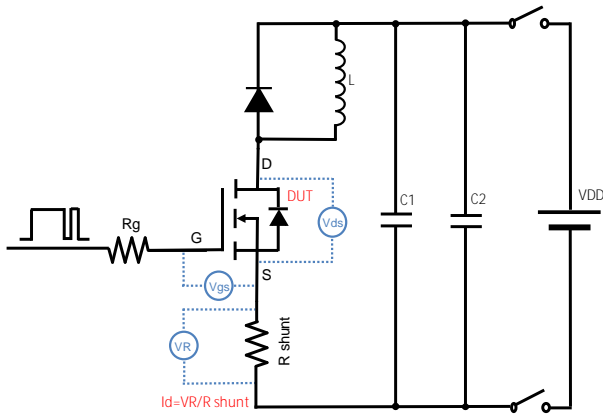


Figure C. Resistive Switching Test Circuit & Waveform

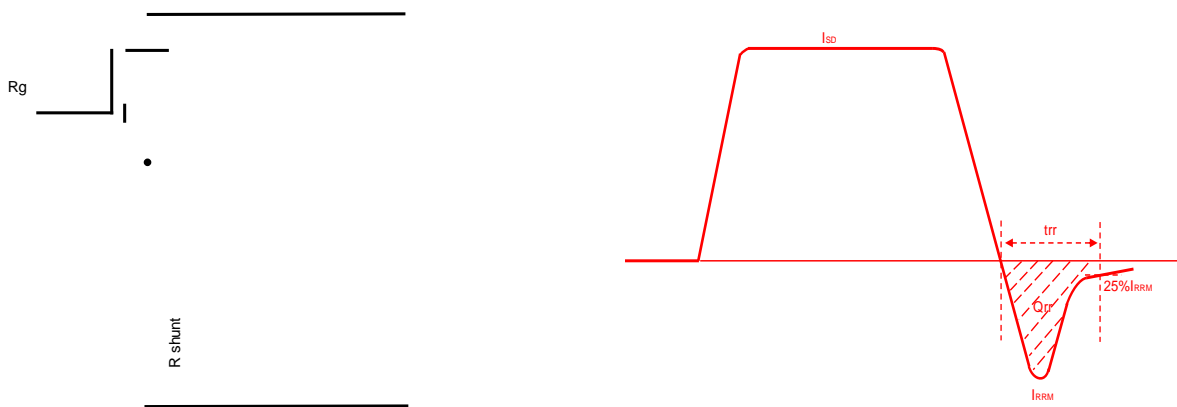


Figure D. Diode Recovery Test Circuit & Waveform



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SOT-723 Package information

