



# 2N7002KCT

## N-Channel Enhancement Mode Field Effect Transistor

Parameter	Symbol	Value
Drain-Source Voltage	$V_{DS}$	60V
Drain Current	$I_D$	0.3A
On-Resistance (at $V_{GS}=10V$ )	$R_{DS(ON)}$	2.5
On-Resistance (at $V_{GS}=4.5V$ )	$R_{DS(ON)}$	3



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

Parameter	Symbol	
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## Typical Electrical and Thermal Characteristics Diagrams

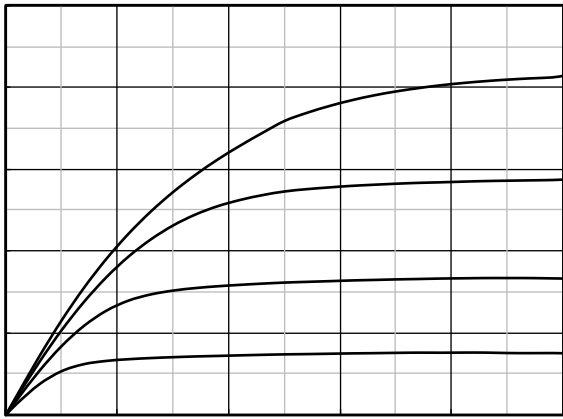


Figure 1. Output Characteristics

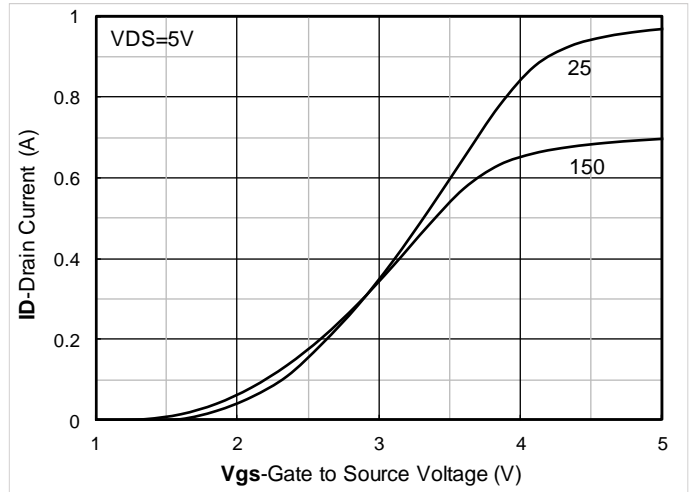


Figure 2. Transfer Characteristics

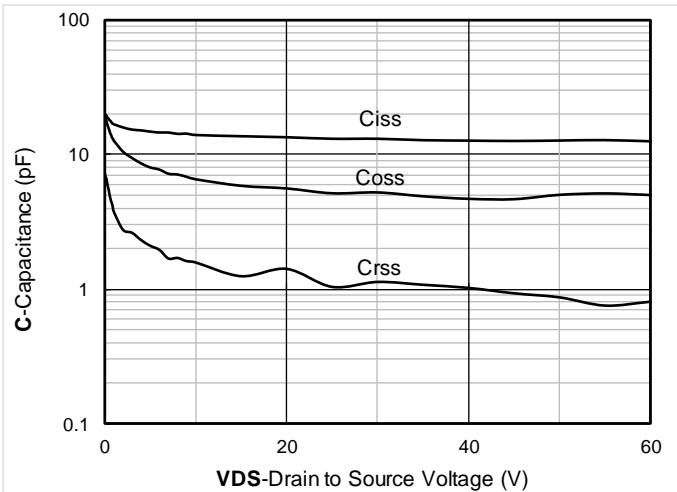


Figure 3. Capacitance Characteristics

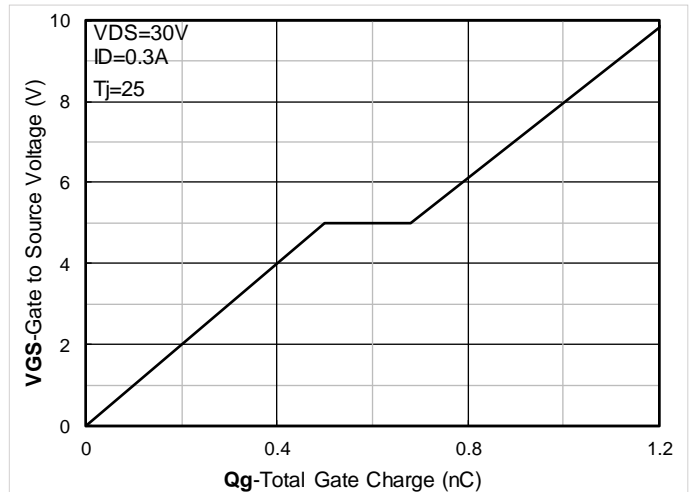


Figure 4. Gate Charge

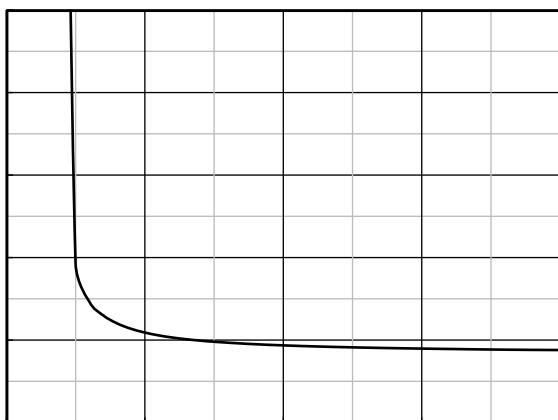


Figure 5. On-Resistance vs. Gate to Source Voltage

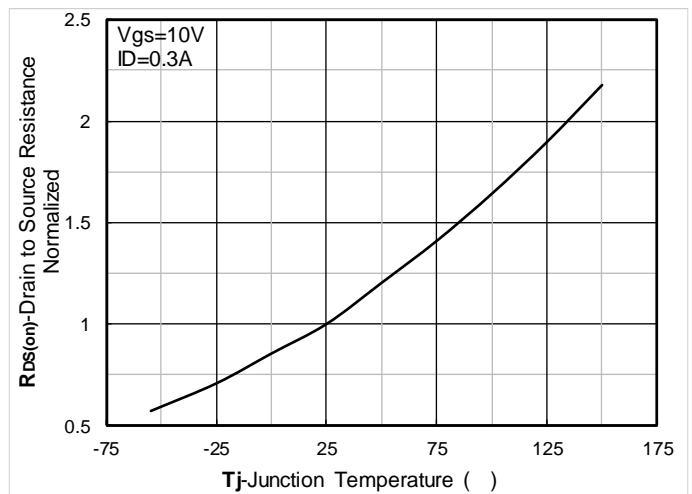


Figure 6. Normalized On-Resistance





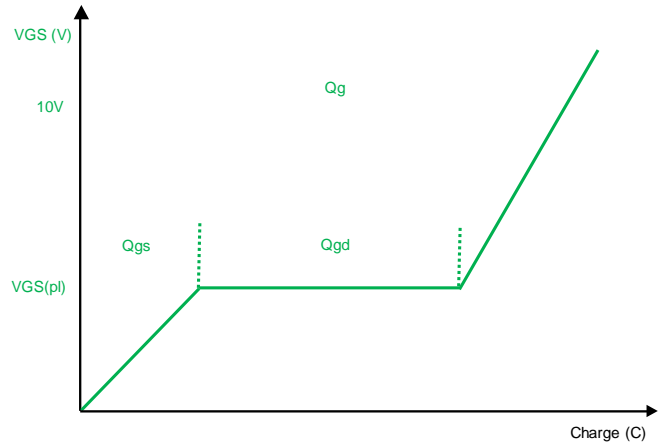


Figure B. Gate Charge Test Circuit & Waveform

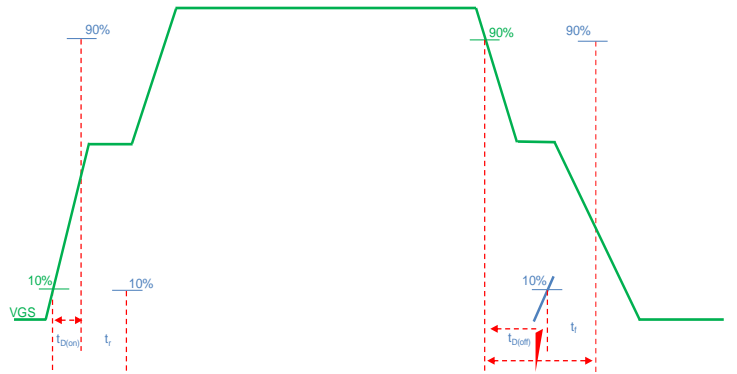


Figure C. Resistive Switching Test Circuit & Waveform

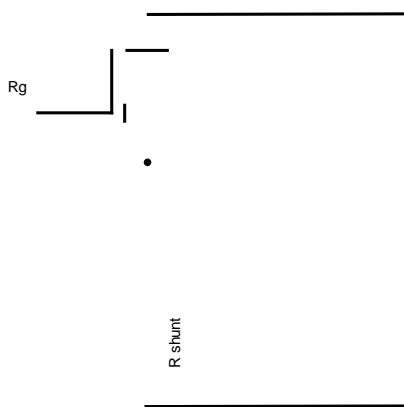


Figure D. Diode Recovery Test Circuit & Waveform



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## SOT-723 Package information

