





## 2N7002KC

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

| Parameter                       | Symbol     | Conditions              | Min | Typ | Max | Units |
|---------------------------------|------------|-------------------------|-----|-----|-----|-------|
| <b>Static Parameter</b>         |            |                         |     |     |     |       |
| Drain-Source Breakdown Voltage  | $BV_{DSS}$ | $V_{GS}=0V, I_D=250$    | 60  |     |     | V     |
| Zero Gate Voltage Drain Current | $I_{DSS}$  | $V_{DS}=60V, V_{GS}=0V$ |     |     | 1   |       |



Typical Performance Characteristics

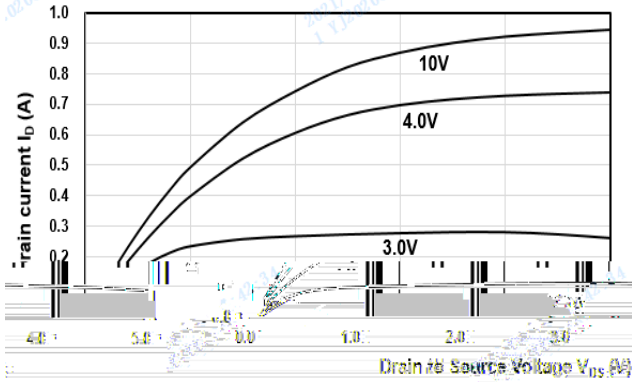


Figure1. Output Characteristics

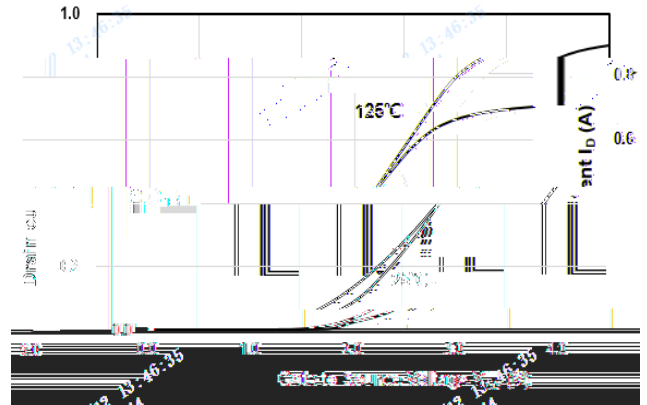


Figure2. Transfer Characteristics

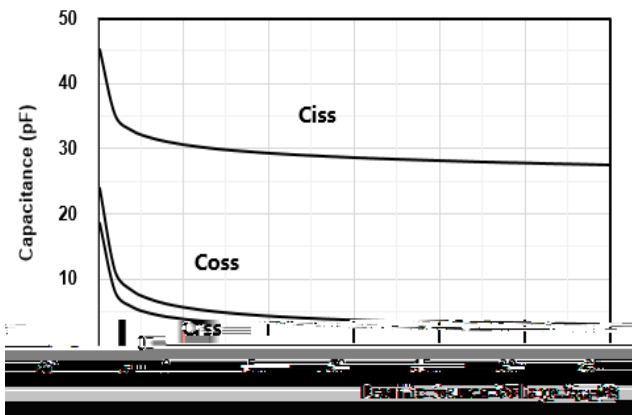


Figure3. Capacitance Characteristics

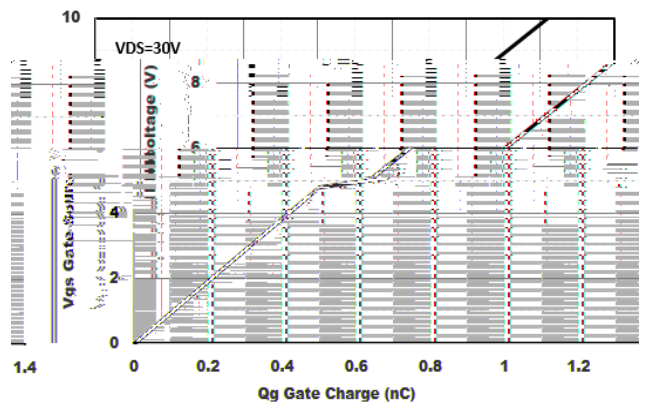


Figure4. Gate Charge

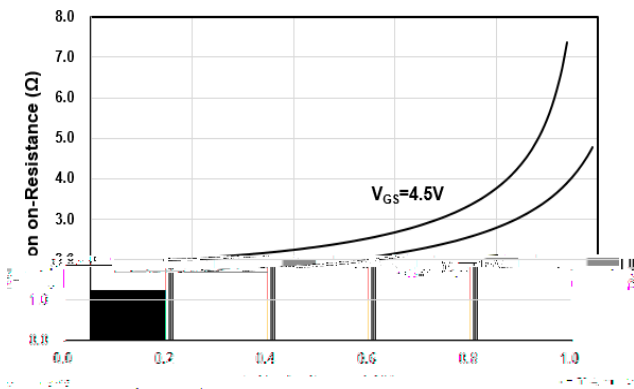


Figure5. Drain-Source on Resistance

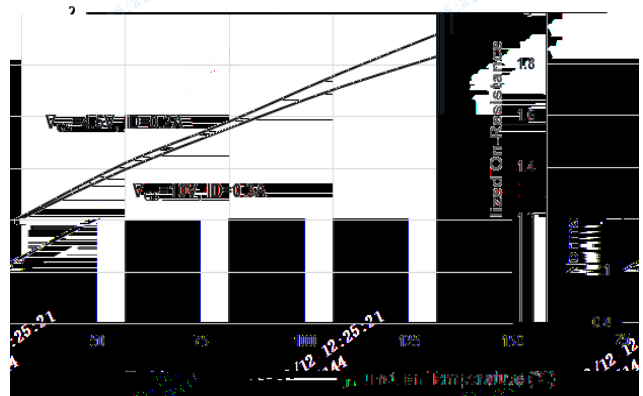


Figure6. Drain-Source on Resistance



Figure7. On-Resistance vs  $V_{GS}$

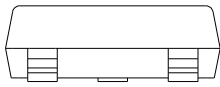
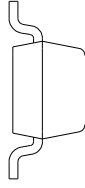
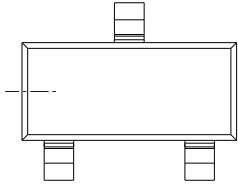
Figure8. Threshold Voltage vs Temperature



Figure 12. Forward characteristics of reverse diode



SOT-23 Package information



UNIT mm

