



## N-Channel Enhancement Mode Field Effect Transistor

### Product Summary

|                                   |         |
|-----------------------------------|---------|
| $V_{DS}$                          | 20V     |
| $I_D$                             | 3.0A    |
| $R_{DS(ON)}$ ( at $V_{GS}=4.5V$ ) | 50 mohm |
| $R_{DS(ON)}$ ( at $V_{GS}=2.5V$ ) | 70 mohm |



# YJL2302B

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

## Typical Performance Characteristics

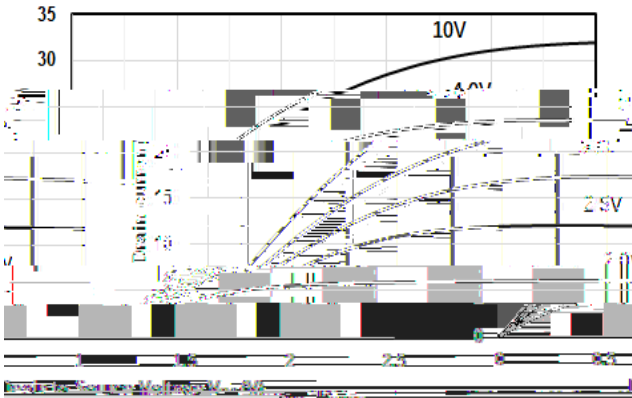


Figure1. Output Characteristics

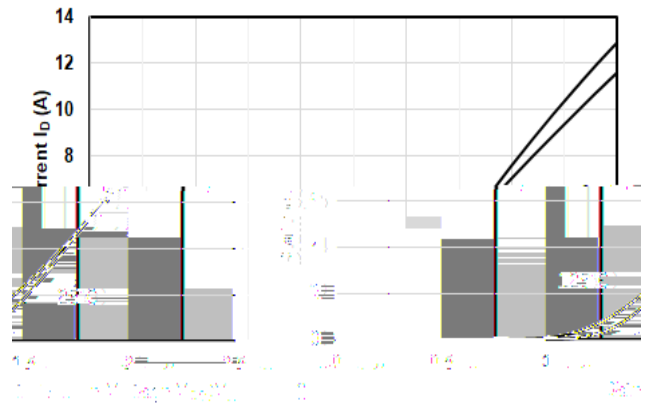


Figure2. Transfer Characteristics

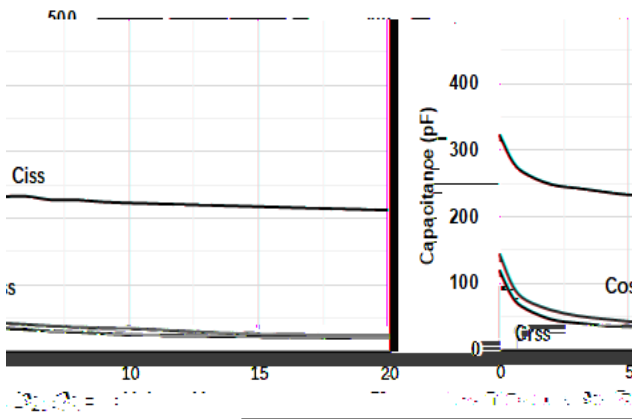


Figure3. Capacitance Characteristics

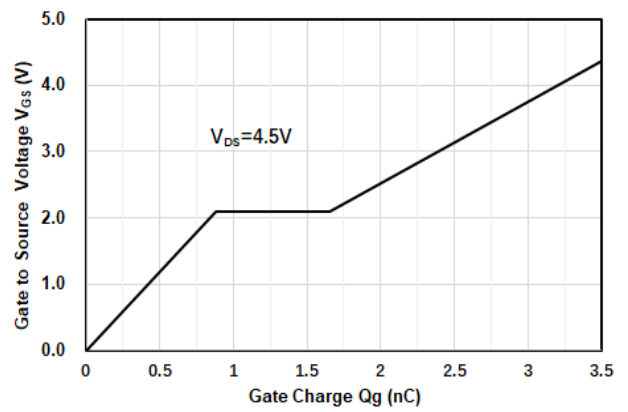


Figure4. Gate Charge

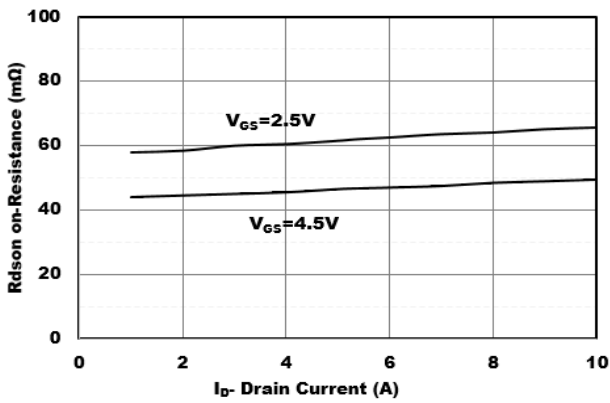


Figure5. Drain-Source on Resistance

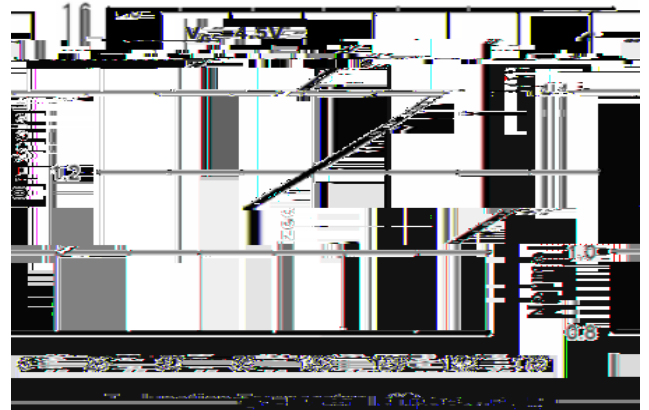


Figure6. Drain-Source on Resistance

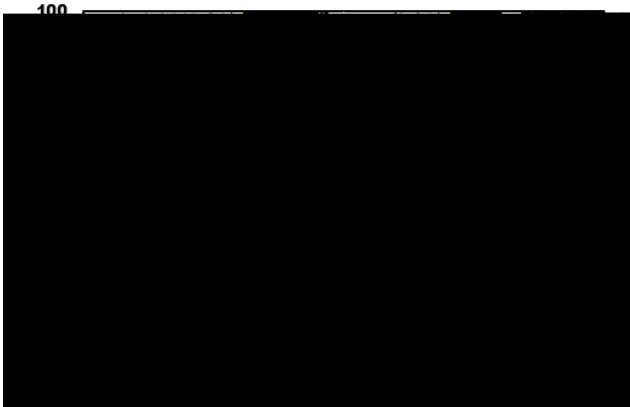


Figure 7. Safe Operation Area

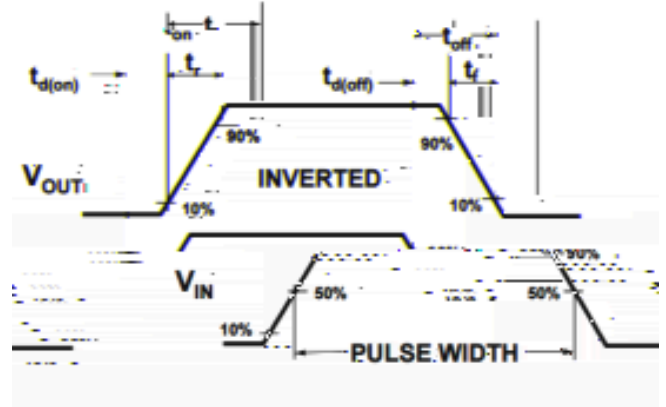


Figure 8. Switching wave

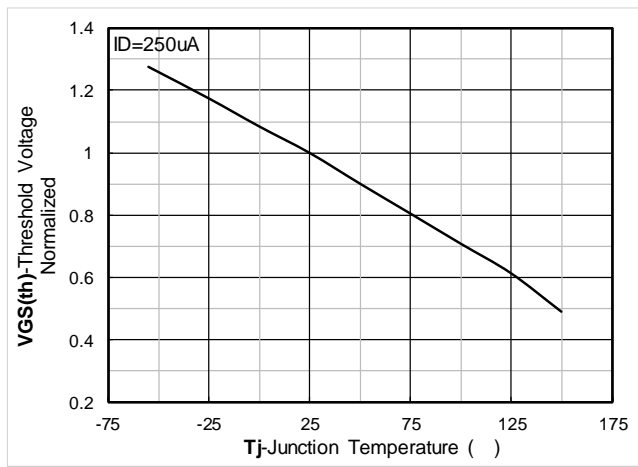


Figure 9. Normalized Threshold voltage

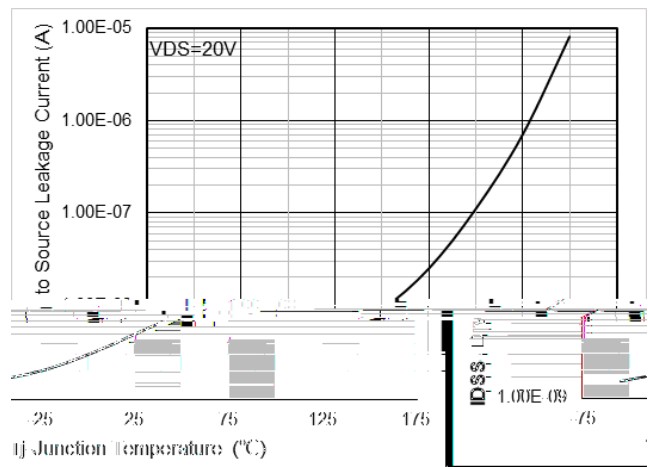
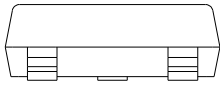
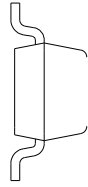
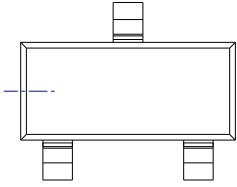


Figure 10. Drain to Source Leakage Current



SOT-23 Package information



UNIT mm

