



N-Channel and P-Channel Complementary MOSFET

Product Summary

NMOS

V_{DS}	30V
I_D	20A
$R_{DS(ON)}$ (at $V_{GS}=10V$)	30m
$R_{DS(ON)}$ (at $V_{GS}=4.5V$)	50m

PMOS

V_{DS}	-30V	
I_D	-20A	
$R_{DS(ON)}$ (at $V_{GS}=-10V$)	40m	
$R_{DS(ON)}$ (at $V_{GS}=-4.5V$)	60m	oý
100% EAS Tested		

General Description

Trench Power LV MOSFET technology
High density cell design for low $R_{DS(ON)}$
High Speed switching
M "



YJQ3611B

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

Param



NMOS Typical Electrical and Thermal Characteristics Diagrams

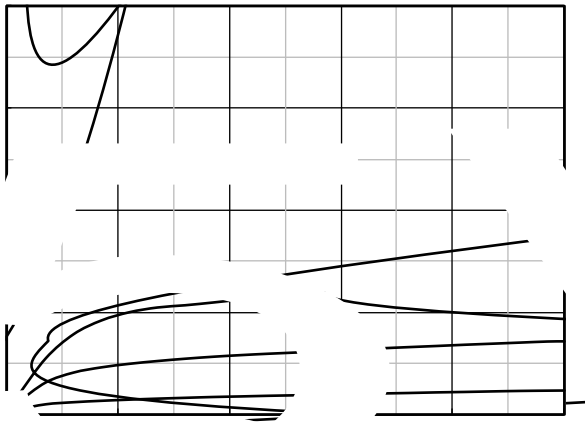


Figure 1. Output Characteristics

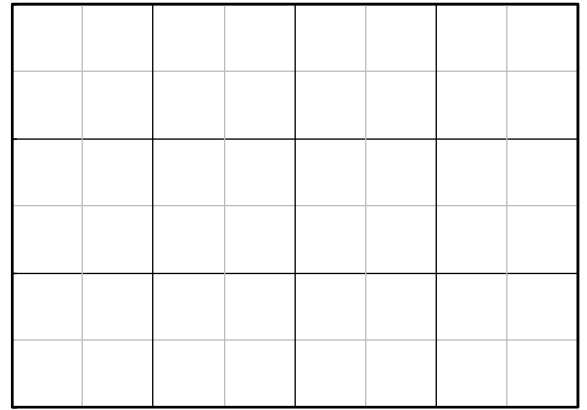


Figure 2. Transfer Characteristics

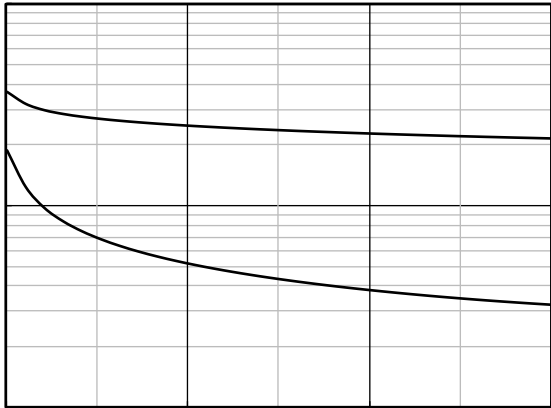


Figure 3. Capacitance Characteristics

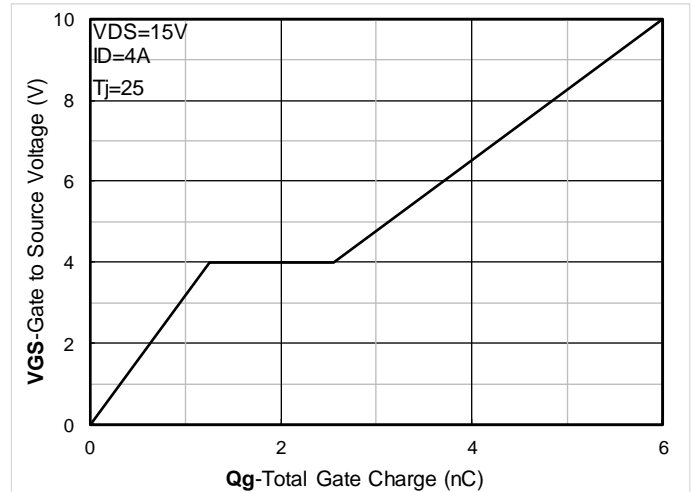


Figure 4. Gate Charge

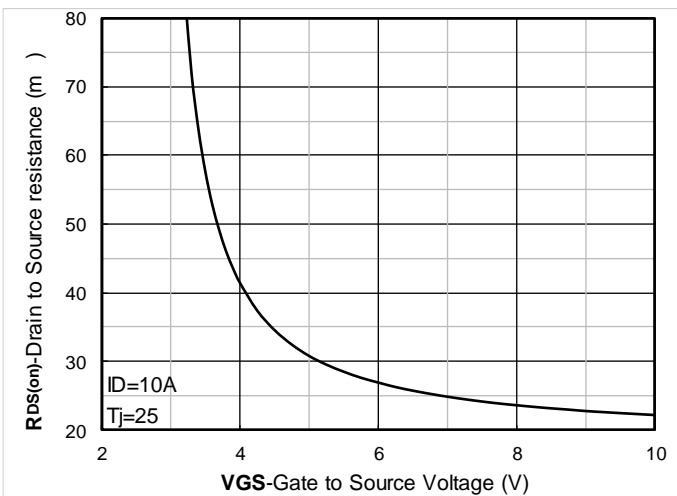


Figure 5. On-Resistance VS Gate to Source Voltage

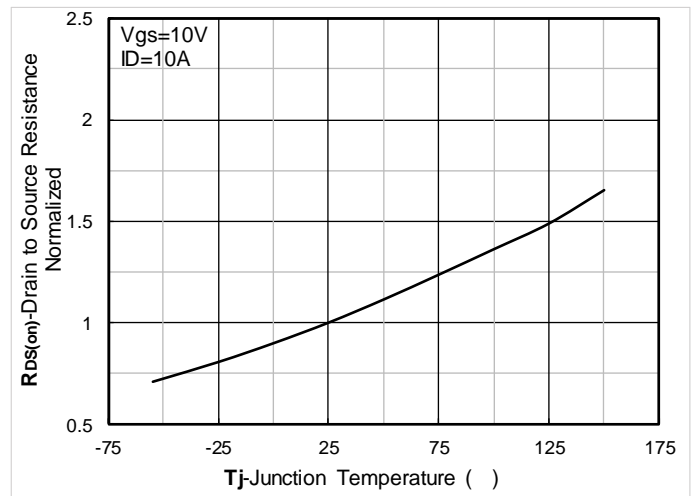


Figure 6. Normalized On- Resistance

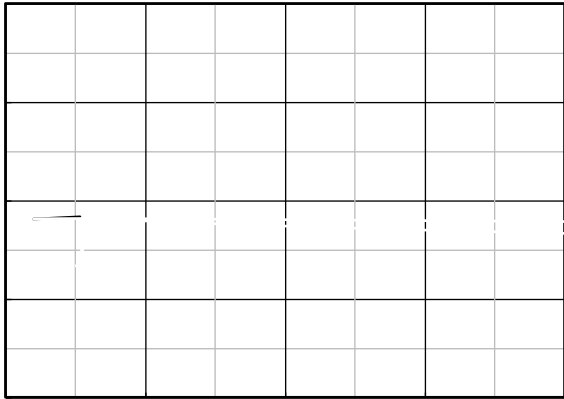


Figure 7. $R_{DS(on)}$ VS Drain Current

Figure 8. Forward characteristics of reverse diode

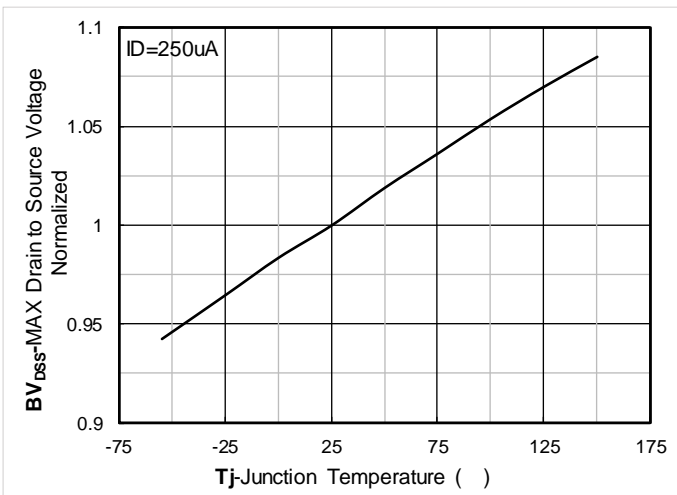


Figure 9. Normalized breakdown voltage

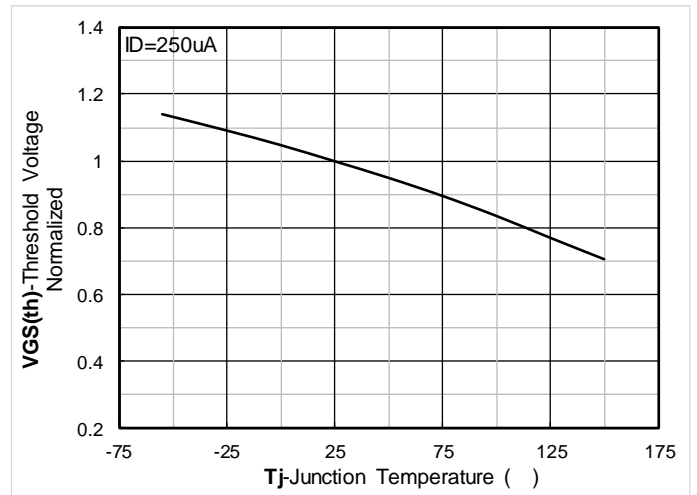


Figure 10. Normalized Threshold voltage

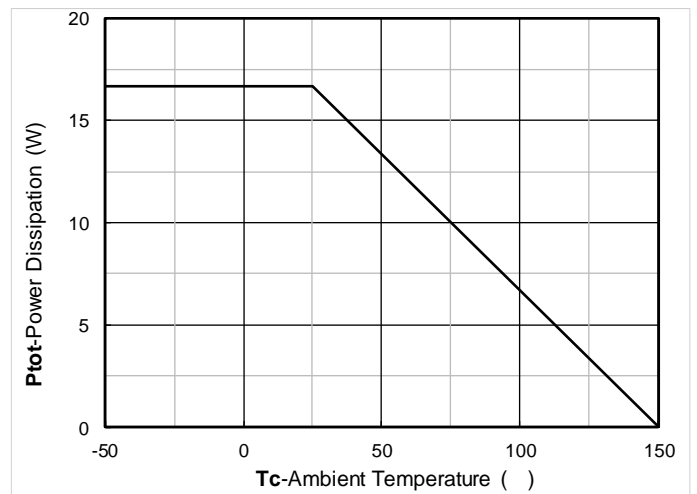


Figure 11. Current dissipation

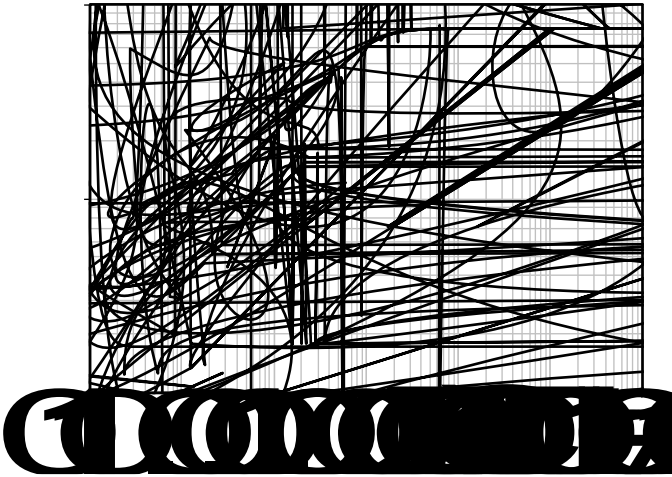


Figure 13. Maximum Transient Thermal Impedance

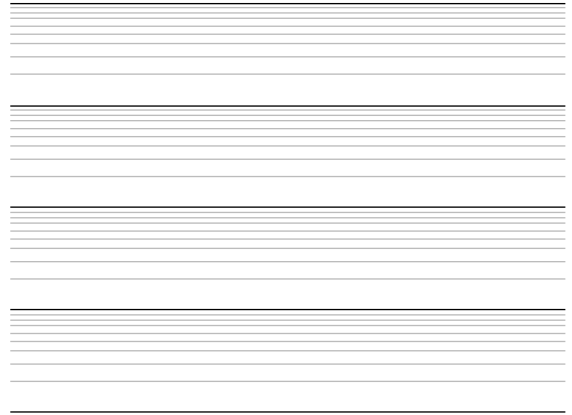


Figure 14. Safe Operation Area

PMOS Typical Electrical and Thermal Characteristics Diagrams

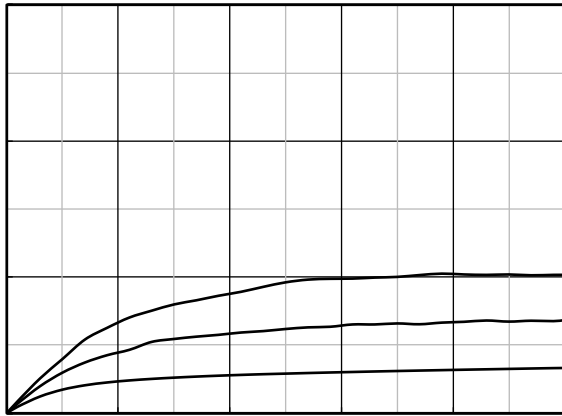


Figure 1. Output Characteristics

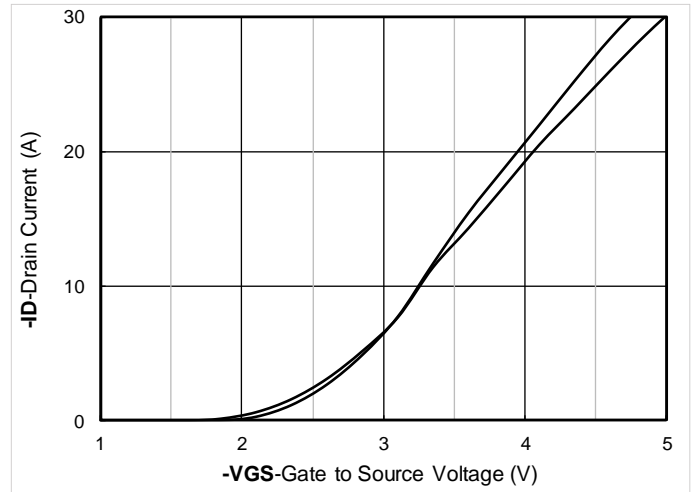


Figure 2. Transfer Characteristics

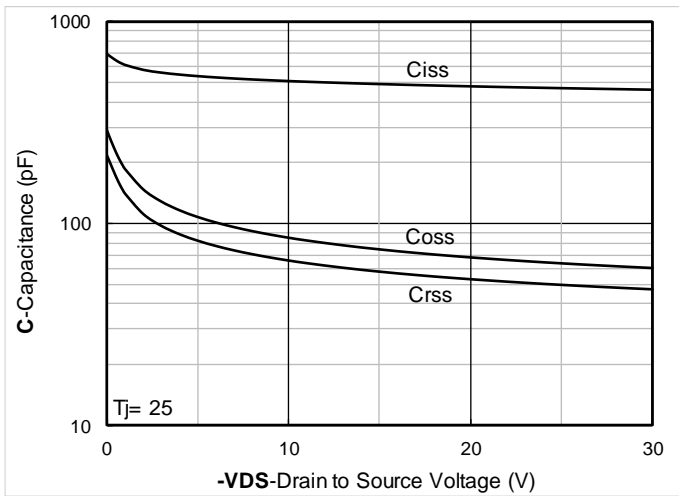


Figure 3. Capacitance Characteristics

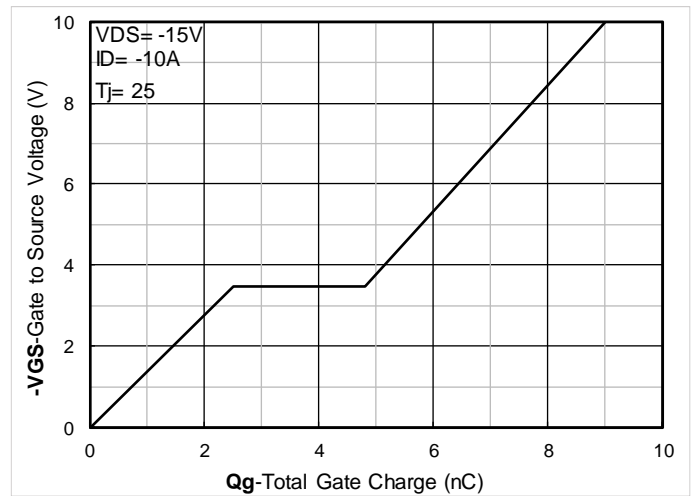


Figure 4. Gate Charge



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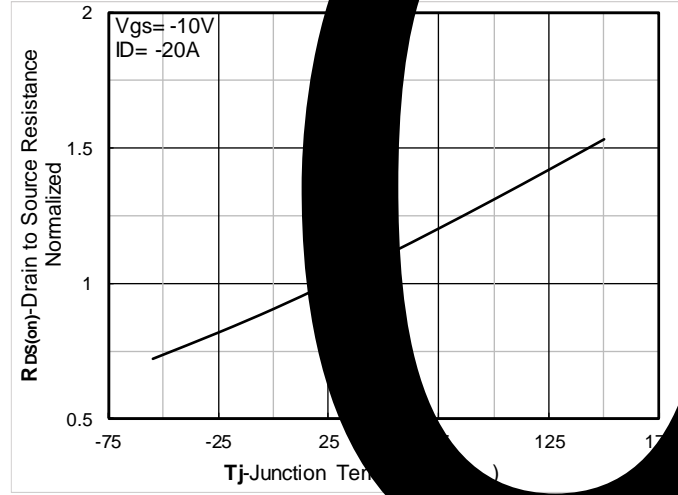
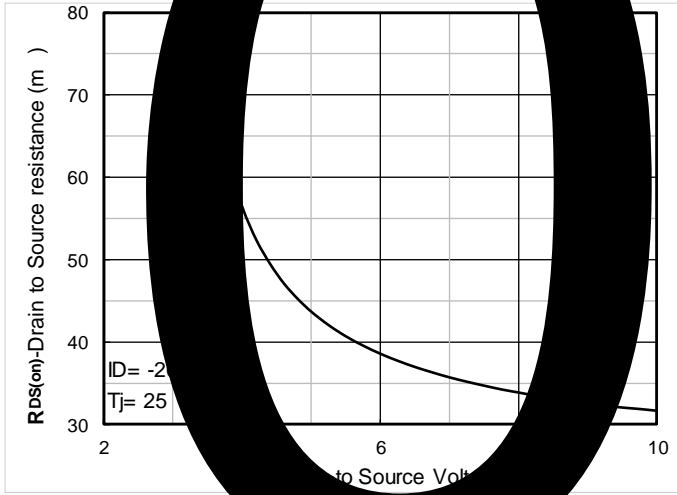


Figure 0 0 596.04 842.000000754 -0.0004g0 G590.96 Tf1 0 0 1 70.824 3.517. G[]TJET

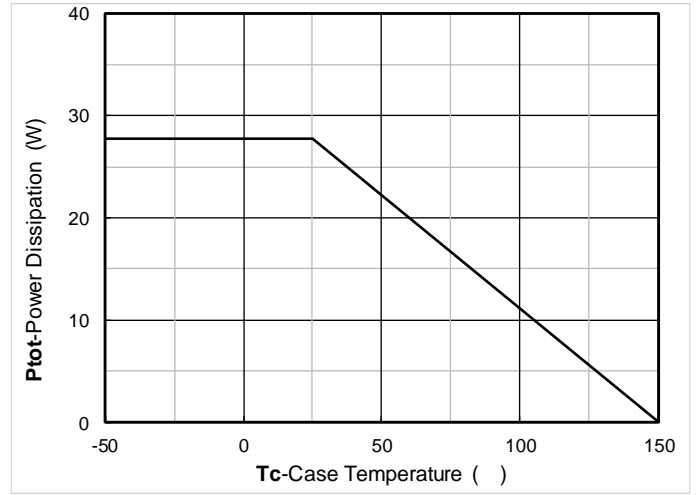
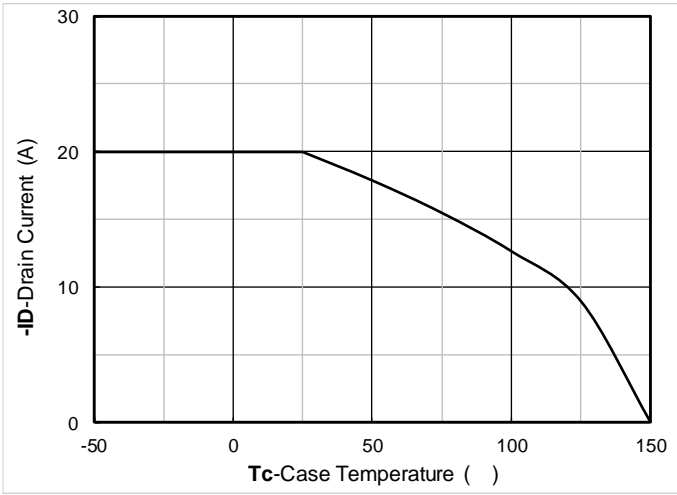


Figure 11. Current dissipation

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