



YJB011G10AQ

N-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	100V
I_D	56A
$R_{DS(on)}$ (at $V_{GS}=10V$)	Ø11m
$R_{DS(on)}$ (at $V_{GS}=4.5V$)	Ø16m
100% EAS Tested	
100% $j V_{DS}$ Tested	

General Description

Low $R_{DS(on)}$ & FOM
Extremely low switching loss



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Thermal resistance

Parameter		Symbol	Typ	Max	Units
Thermal Resistance Junction-to-Ambient ^D	Steady-State	R_{JA}	35	42	- /W
Thermal Resistance Junction-to-Case	Steady-State	R_{JC}	1.5	1.8	

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	Marking	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YJB011G10AQ	F1	YJB011G10A	800	/	8000	13"Reel

- A. Repetitive rating; pulse width limited by max. junction temperature.
- B. $T_J=25$, $V_{DD}=40V$, $V_G=10V$, $R_G=25$, $L=0.5mH$, $I_{AS}=20A$.
- C. P_q is based on max. junction temperature, using junction-case thermal resistance.
- D. The value of R_{JA}

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Typical Electrical and Thermal Characteristics Diagrams

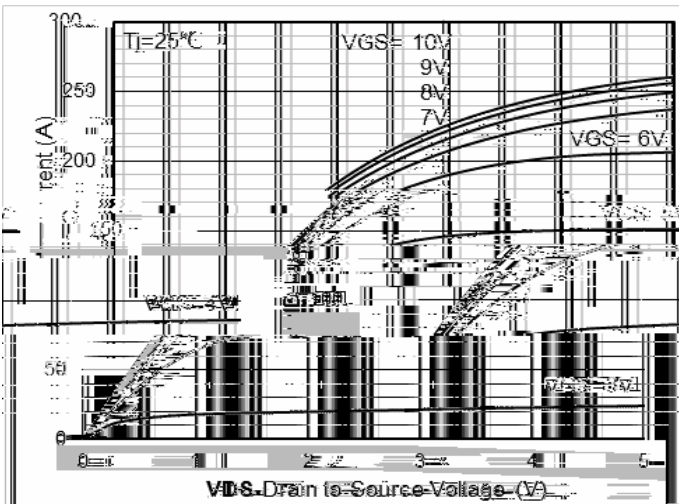


Figure 1. Output Characteristics

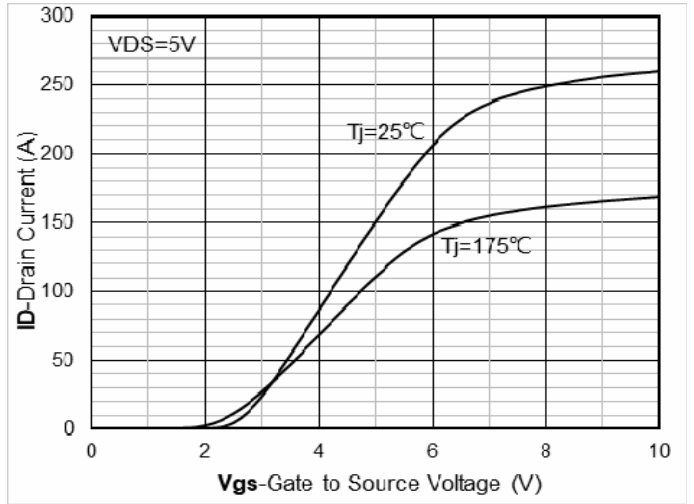
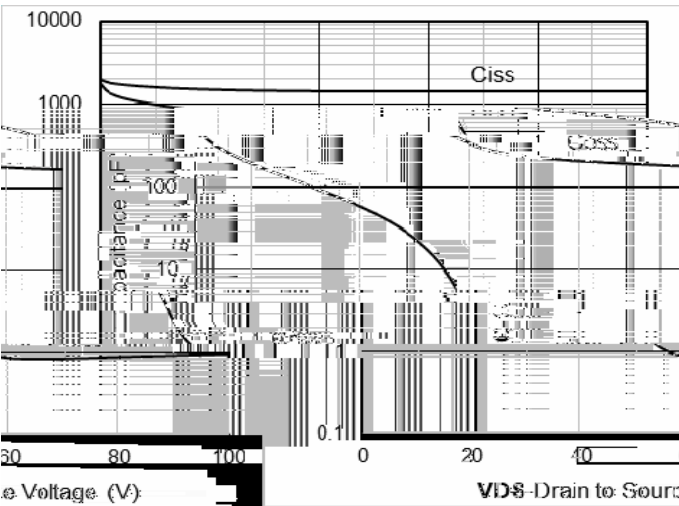


Figure 2. Transfer Characteristics



3. Capacitance Characteristics

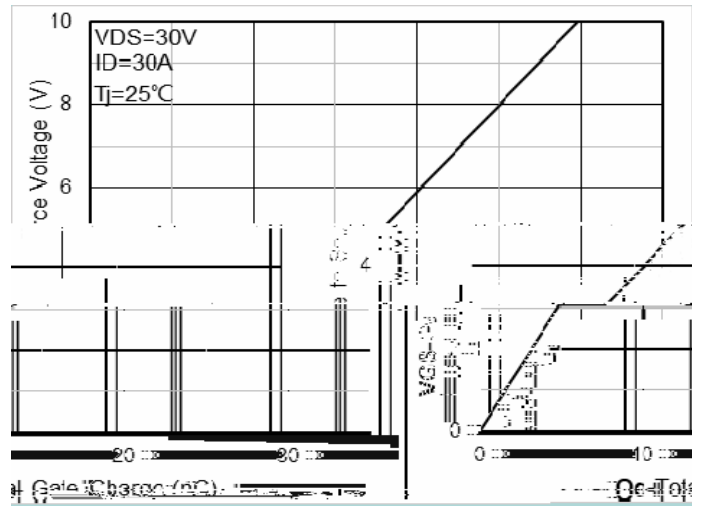


Figure 4. Gate Charge

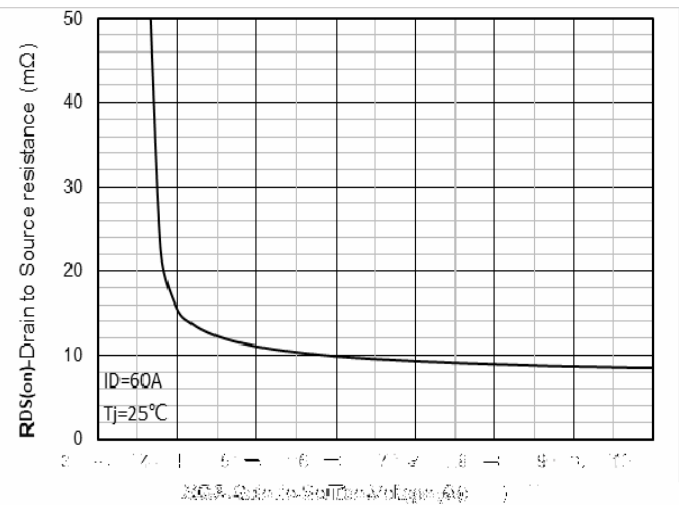


Figure 5. On-Resistance vs Gate to Source Voltage

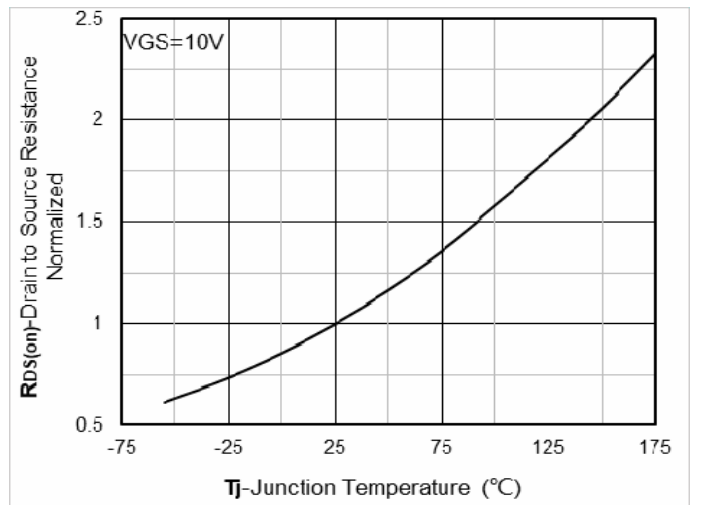


Figure 6. Normalized On-Resistance

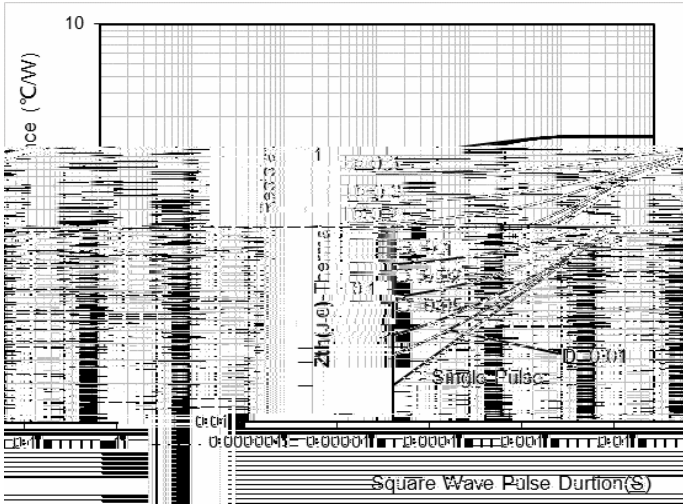


Figure 13. Maximum Transient Thermal Impedance

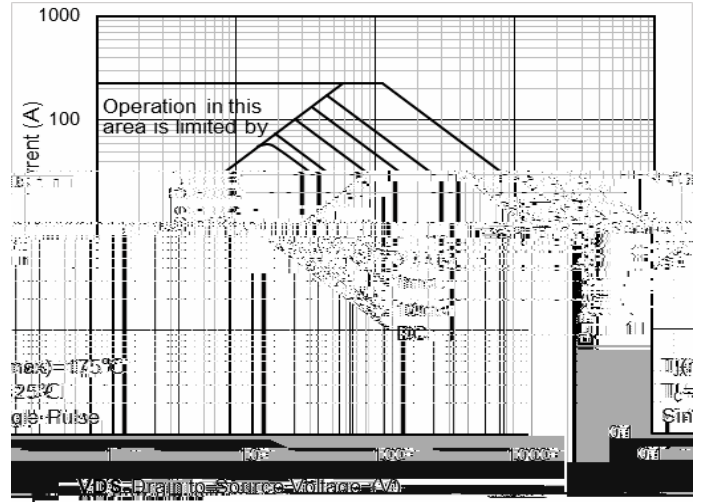


Figure 14. Safe Operation Area

