



N-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	150V
I_D	18A
$R_{DS(ON)}$ (at $V_{GS}=10V$)	70m
$R_{DS(ON)}$ (at $V_{GS}=6V$)	80m
100% EAS Tested	



YJD18G15A

Typical Electrical and Thermal Characteristics Diagrams

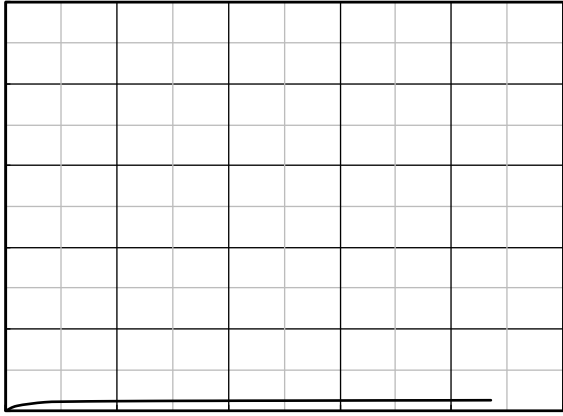


Figure 1. Output Characteristics

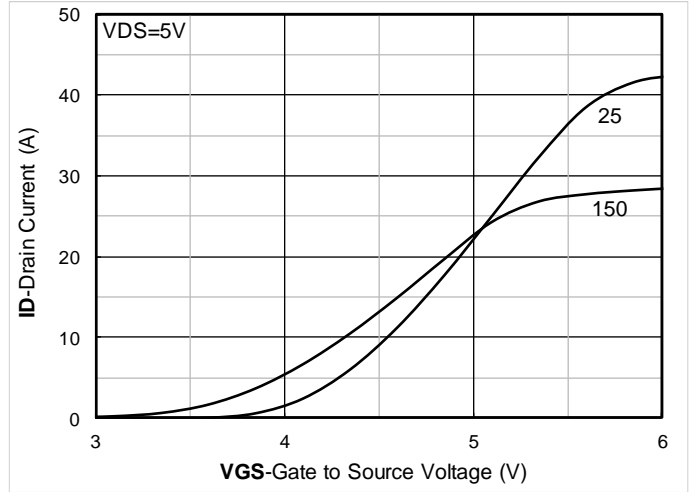


Figure 2. Transfer Characteristics

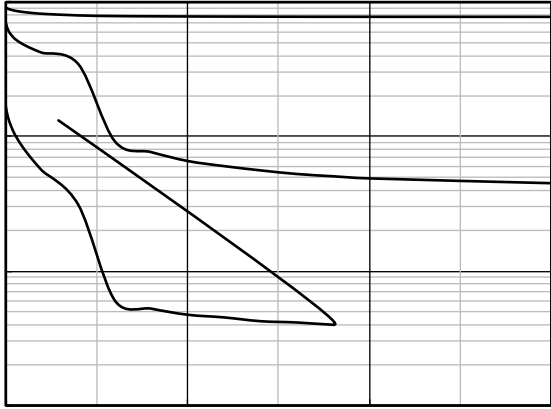


Figure 3. Capacitance Characteristics

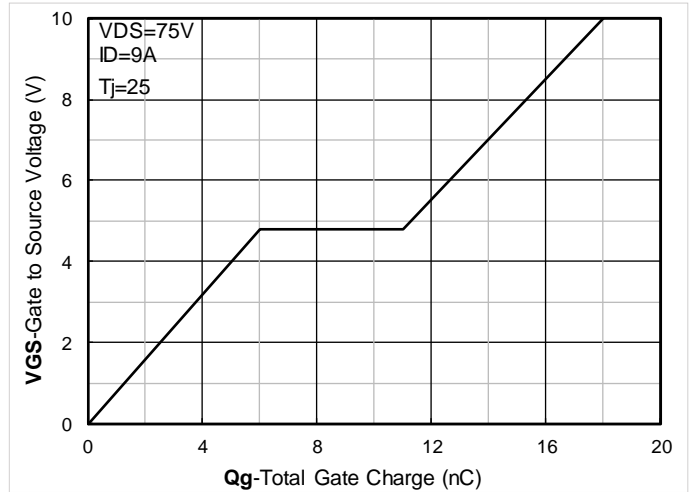


Figure 4. Gate Charge

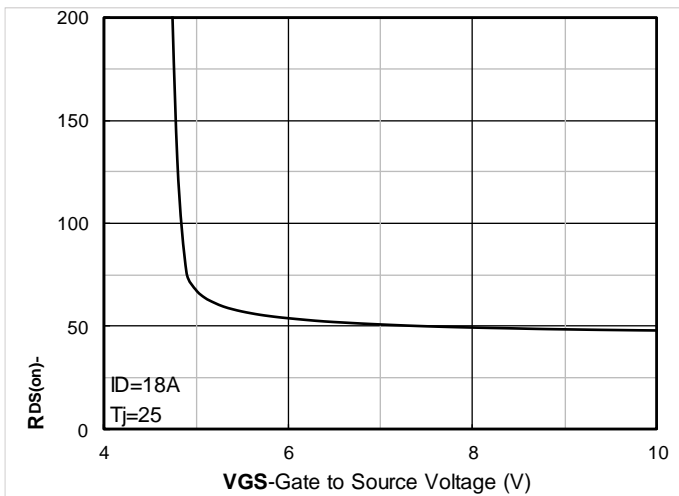


Figure 5. On-Resistance vs Gate to Source Voltage

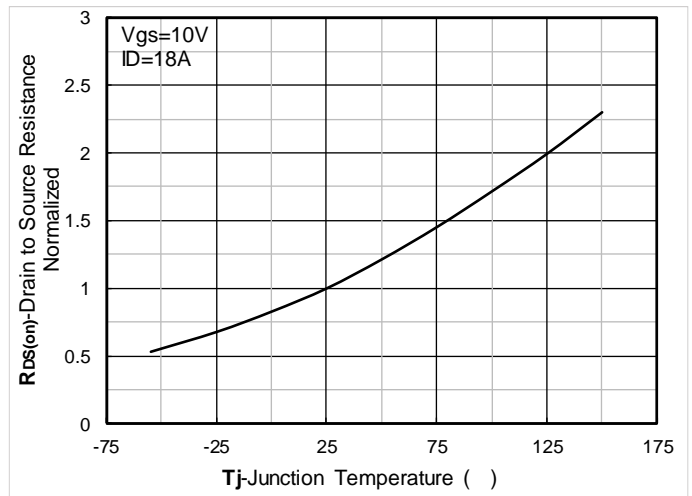


Figure 6. Normalized On-Resistance



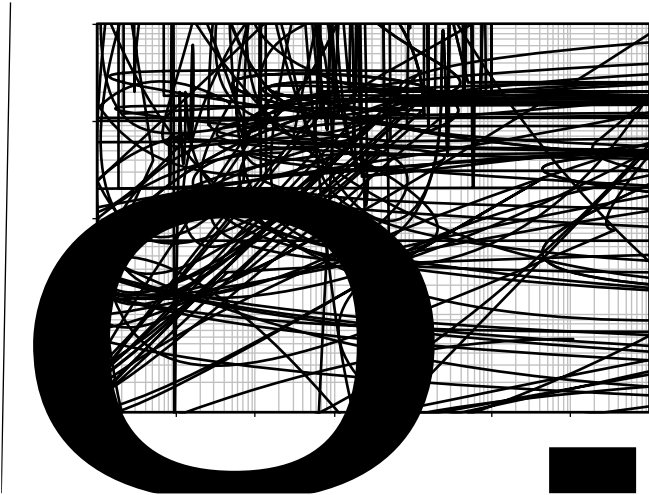


Figure 13. Maximum Transient Thermal Impedance

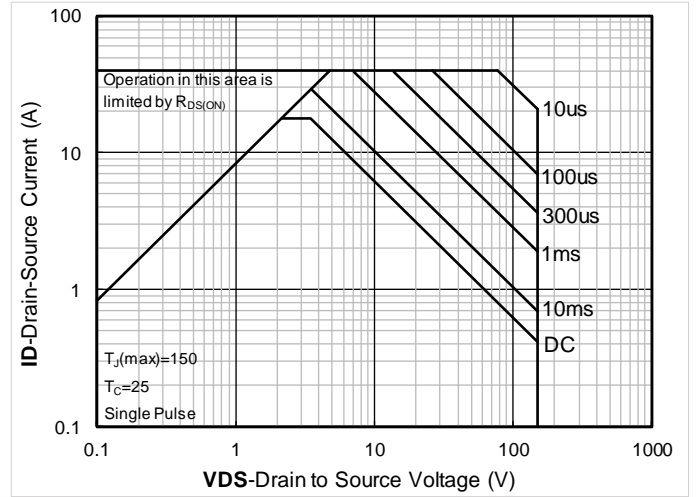


Figure 14. Safe Operation Area

Test Circuits & Waveforms

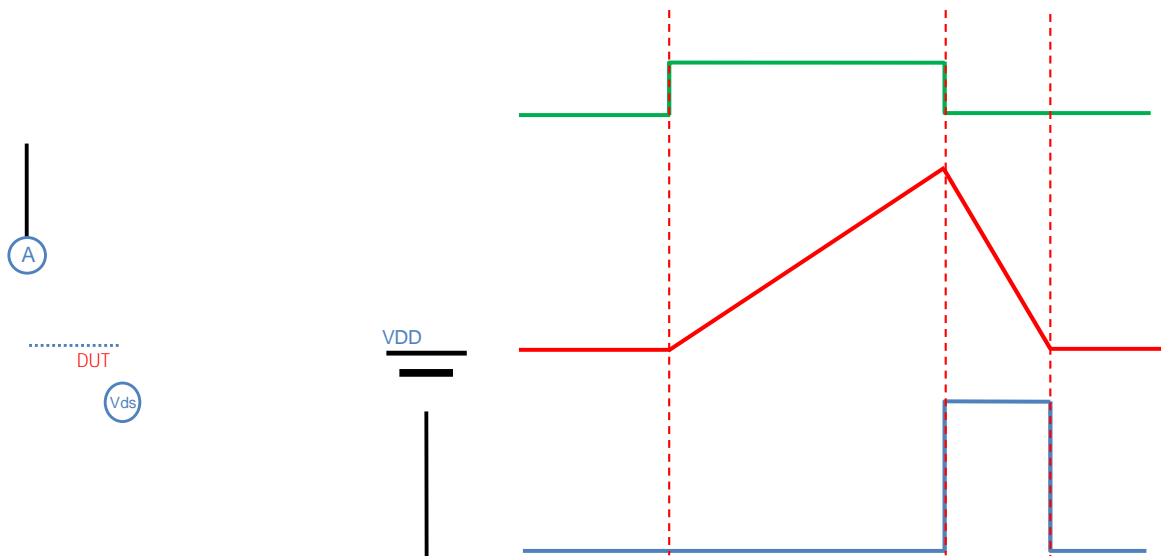


Figure A. Unclamped Inductive Switching (UIS) Test Circuit & Waveform



Figure B. Gate Charge Test Circuit & Waveform

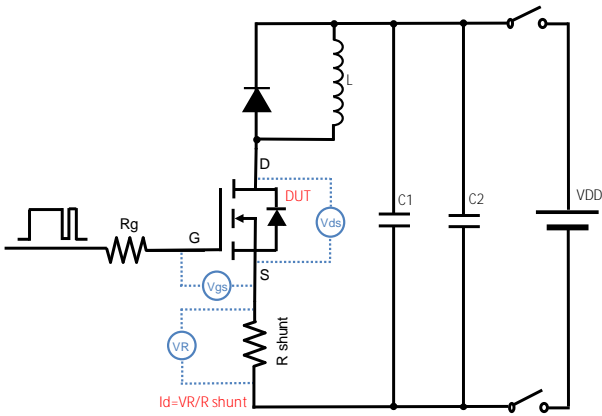


Figure C. Resistive Switching Test Circuit & Waveform

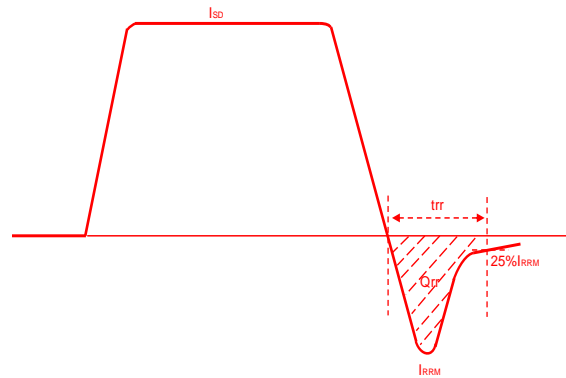
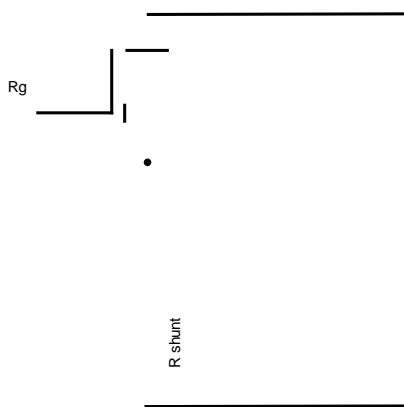
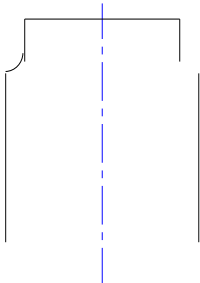
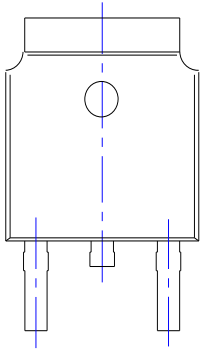


Figure D. Diode Recovery Test Circuit & Waveform



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TO-252-B Package information



SYMBOL	DIMENSIONS			
	INCHES			
	MIN.	NOM.		
A1	0.000			
A2	0.087	0.091		
A3	0.035	0.039		
b	0.026	0.030		
c	0.018	0.020		
D	0.256	0.260		
D1				
D2	0.181	0.189		
E	0.390	0.398		
E1	0.236	0.240		

NOTE:

- 1.PACKAGE BODY SIZES EXCLUDE MOLD FLASH AND GATE BURRS.
- 2.TOLERANCE 0.1mm UNLESS OTHERWISE SPECIFIED.
- 3.THE PAD LAYOUT IS FOR REFERENCE PURPOSES ONLY.



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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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