



# YJB70G10B

## N-Channel Enhancement Mode Field Effect Transistor

### Product Summary

$V_{DS}$	100V
$I_D$	70A
$R_{DS(ON)}$ ( at $V_{GS}=10V$ )	8.6 mohm
$R_{DS(ON)}$ ( at $V_{GS}=6V$ )	13 mohm
100% EAS Tested	
100% $V_{DS}$ Tested	

### General Description

Low  $R_{DS(on)}$  & FOM  
Extremely low switching loss  
Excellent stability and uniformity  
Fast switching and soft recovery  
Moisture Sensitivity Level 1  
Epoxy Meets UL 94 V-0 Flammability Rating  
Halogen Free

### Applications

Power switching application  
Hard switched and high frequency circuits  
UPS

### Absolute Maximum Ratings ( $T_A=25$ unless otherwise noted)

Parameter





Typical Performance Characteristics

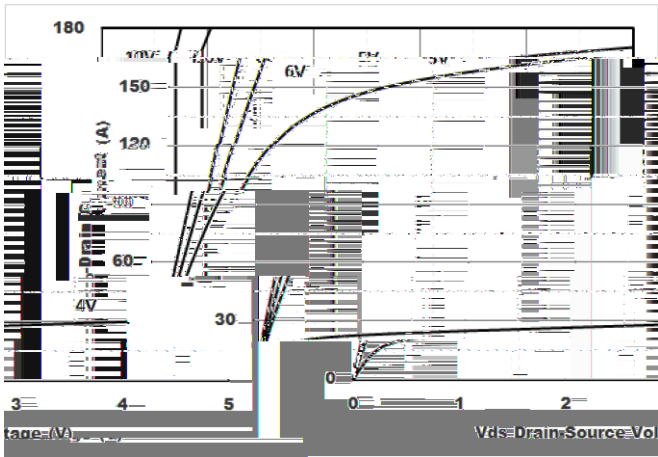


Figure1. Output Characteristics

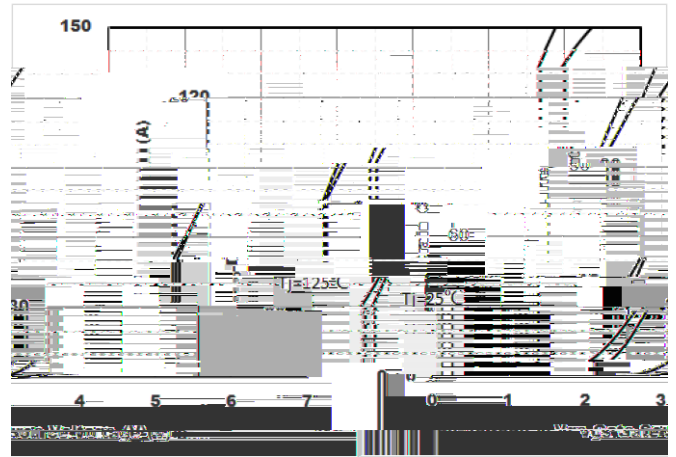


Figure2. Transfer Characteristics

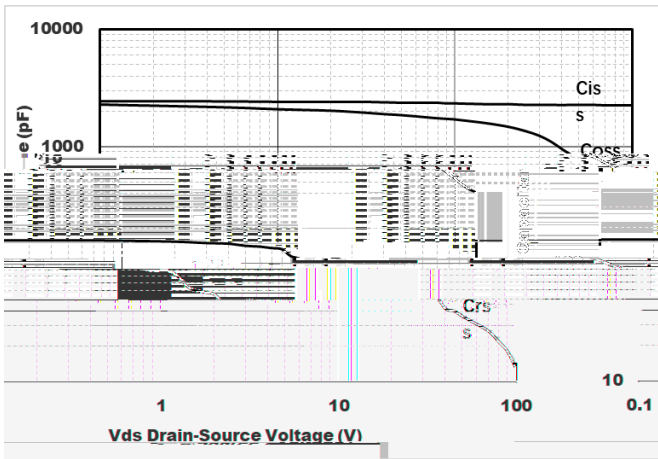


Figure3. Capacitance Characteristics

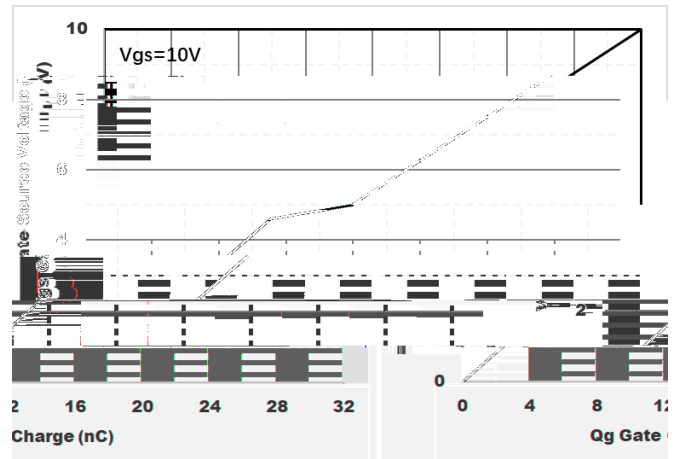


Figure4. Gate Charge

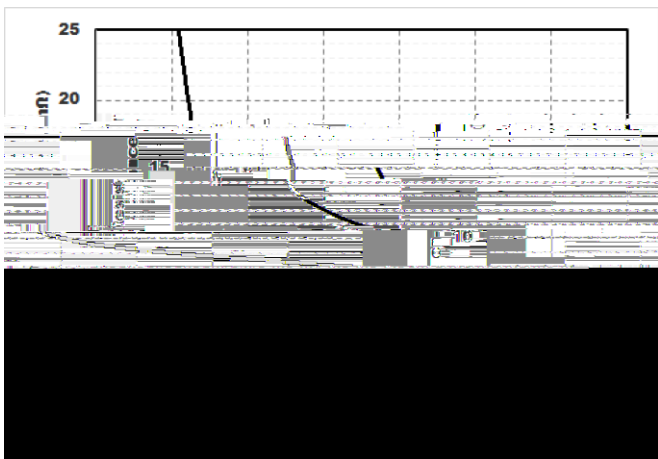


Figure5. : On-Resistance vs. Drain Current and Gate Voltage

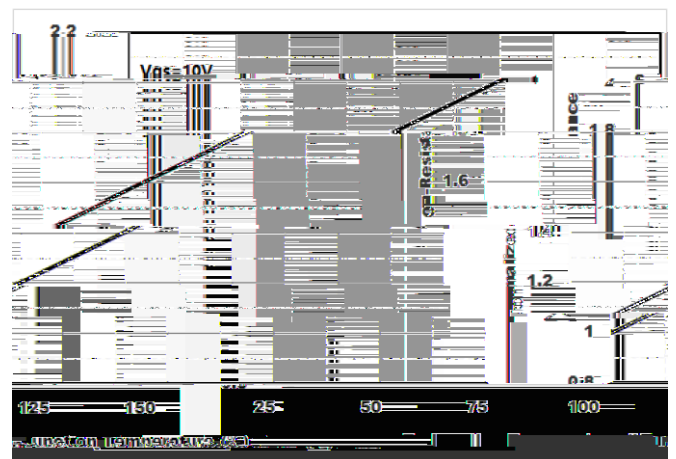


Figure6. Normalized On-Resistance



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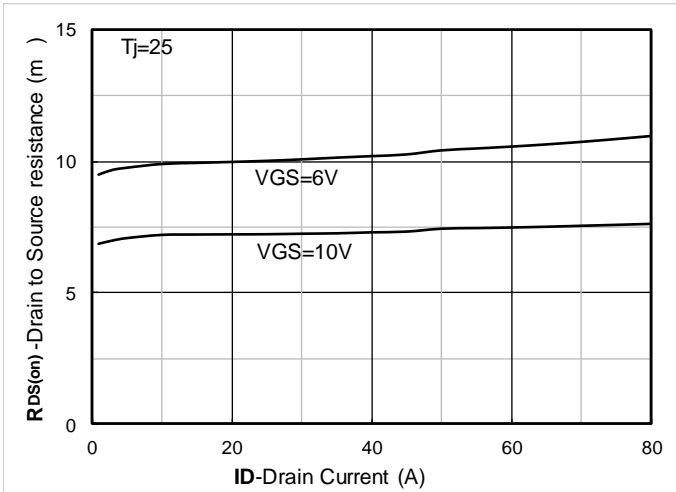


Figure 7.  $R_{DS(on)}$  VS Drain Current

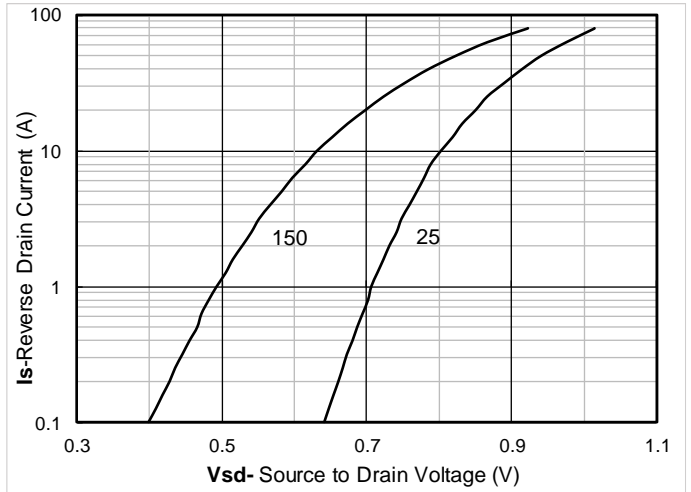


Figure 8. Forward characteristics of reverse diode

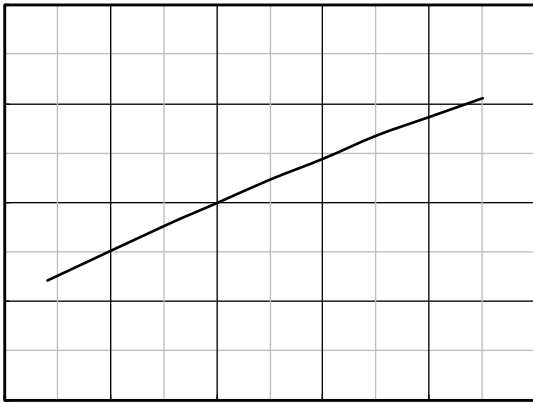
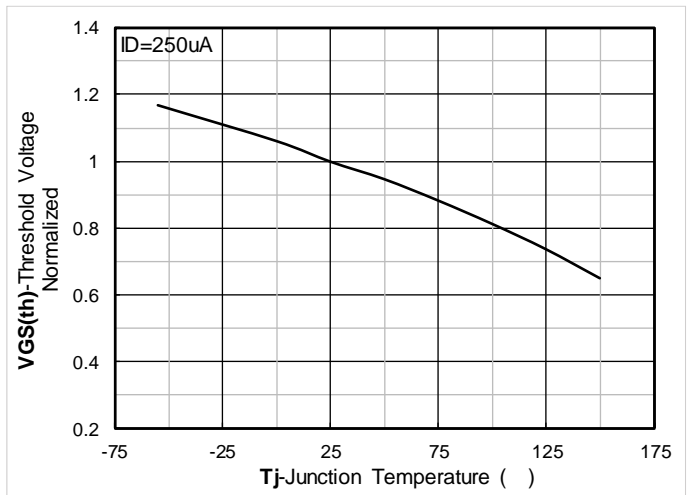


Figure 9. Normalized breakdown voltage





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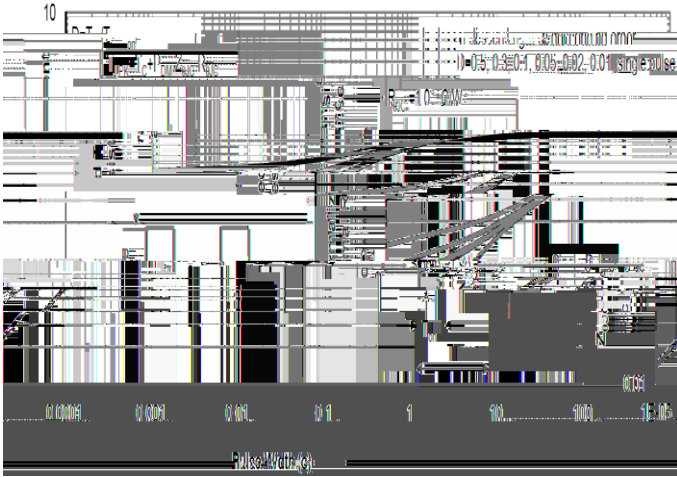


Figure 13. Normalized Maximum Transient thermal impedance

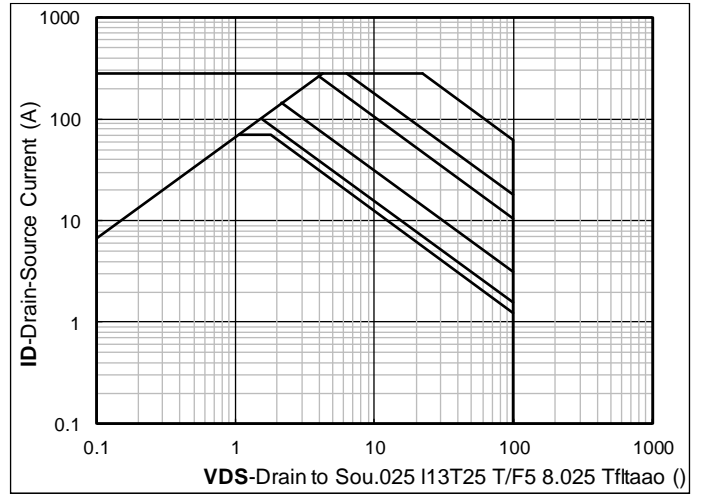


Figure 14. Safe Operation Area



TO-263-HY Package information

SYM.	MIN.	
A2		
b2		0.050
c		
c2		
D2		
E E1		



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### Disclaimer

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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