



# YJS11G10A

## N-Channel Enhancement Mode Field Effect Transistor

### Product Summary

$V_{DS}$	100V
$I_D$	11A
$R_{DS(ON)}$ ( at $V_{GS}=10V$ )	13.5m
$R_{DS(ON)}$ ( at $V_{GS}=4.5V$ )	17m
100% EAS Tested	

### General Description

Split gate trench MOSFET technology  
Excellent package for heat dissipation  
High density cell design for low  $R_{DS(ON)}$   
Moisture Sensitivity Level 3  
Epoxy Meets UL 94 V-0 Flammability Rating  
Halogen 0.00 EMC 4

owr

swi cing

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

Parameter	Symbol	Conditions	Min	Typ	Max	Units
<b>Static Parameter</b>						
Drain-Source Breakdown Voltage	$BV_{DSS}$	$V_{GS}=0V, I_D=250\mu A$	100	-	-	V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS}=100V, V_{GS}=0V$	-	-	1	$\mu A$
		$V_{DS}=100V, V_{GS}=0V, T_J=150$	-	-	100	
Gate-Body Leakage Current	$I_{GSS}$	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	$\pm 100$	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	1	1.7	3	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V, I_D=11A$	-	10.5	13.5	m
		$V_{GS}=4.5V, I_D=11A$	-	13	17	
Diode Forward Voltage	$V_{SD}$	$I_S$				





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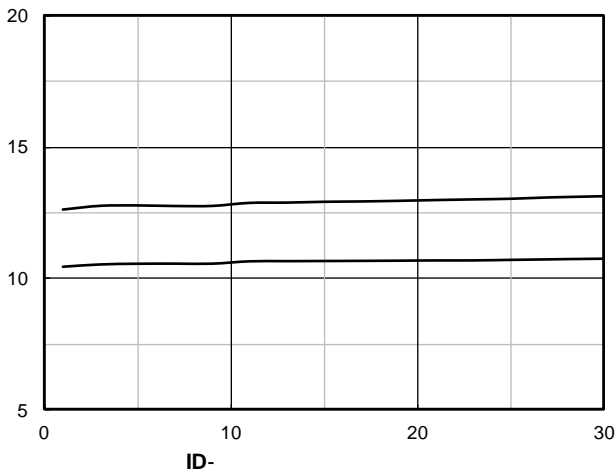


Figure 7.  $R_{DS(on)}$  VS Drain Current

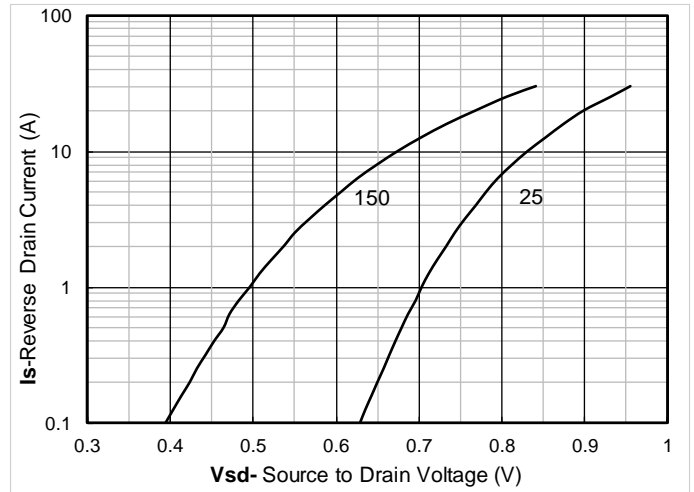


Figure 8. Forward characteristics of reverse diode

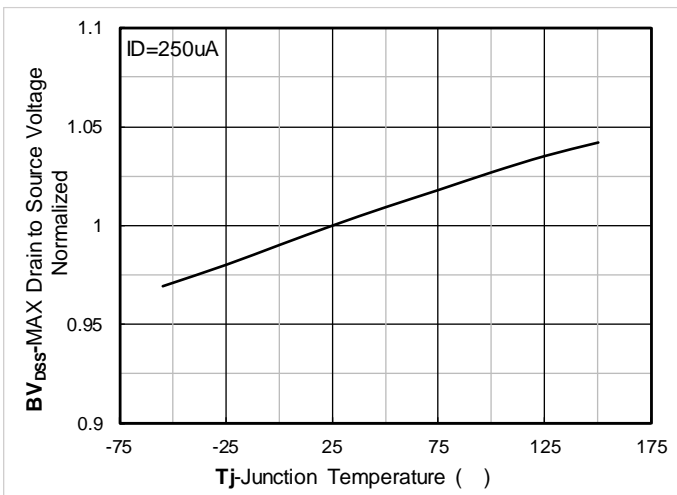


Figure 9. Normalized breakdown voltage

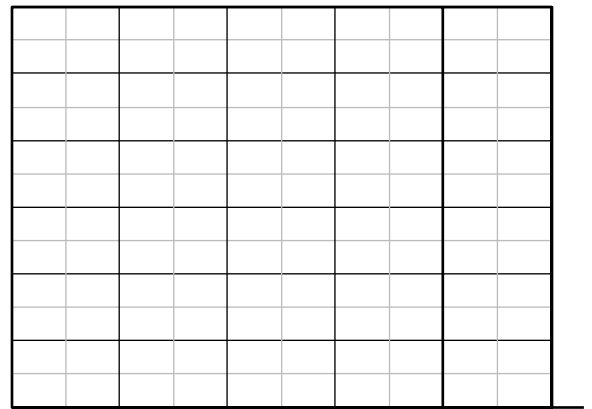


Figure 10. Normalized Threshold voltage

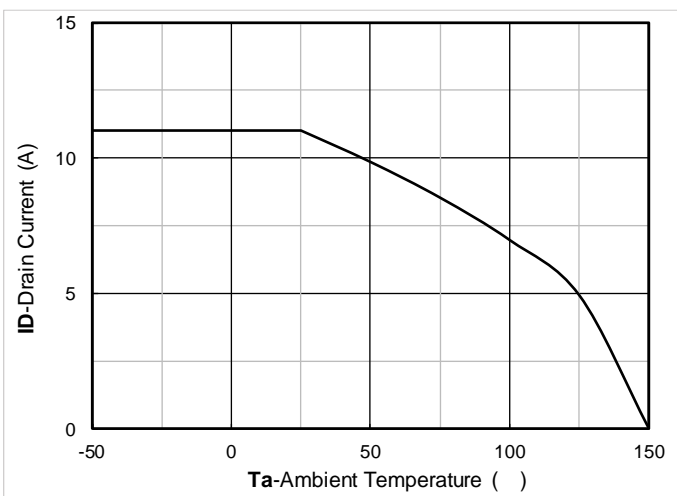


Figure 11. Current dissipation

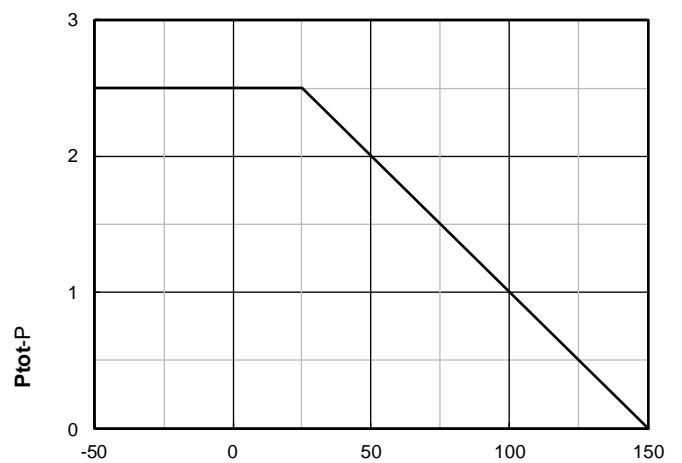
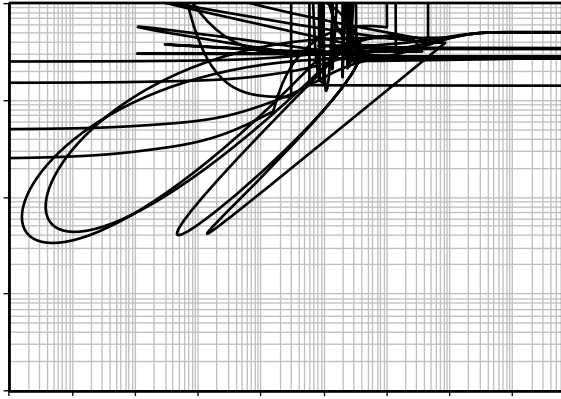


Figure 12. Power dissipation



Maximum Transient Thermal Impedance (K/W) vs. Pulse Duration (S)

Figure 13. Maximum Transient Thermal Impedance

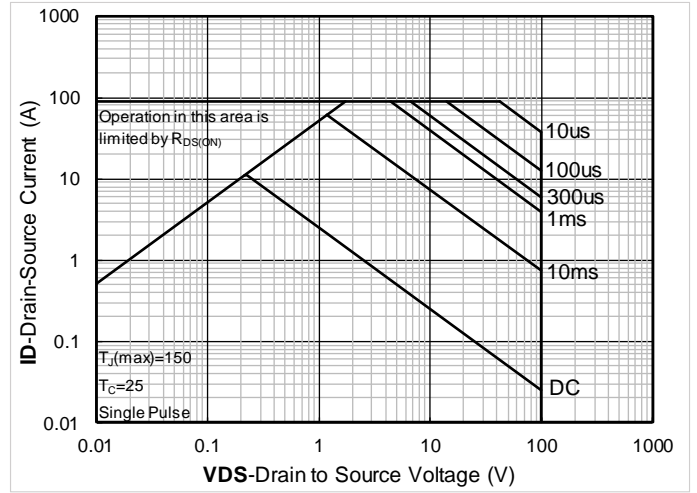


Figure 14. Safe Operation Area





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## Disclaimer

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