



YJL03N03B

N-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	30V
I_D	3A
$R_{DS(ON)}$ (at $V_{GS}=10V$)	55m
$R_{DS(ON)}$ (at $V_{GS}=4.5V$)	60m
$R_{DS(ON)}$ (at $V_{GS}=2.5V$)	95m

General Description

Trench Power LV MOSFE



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

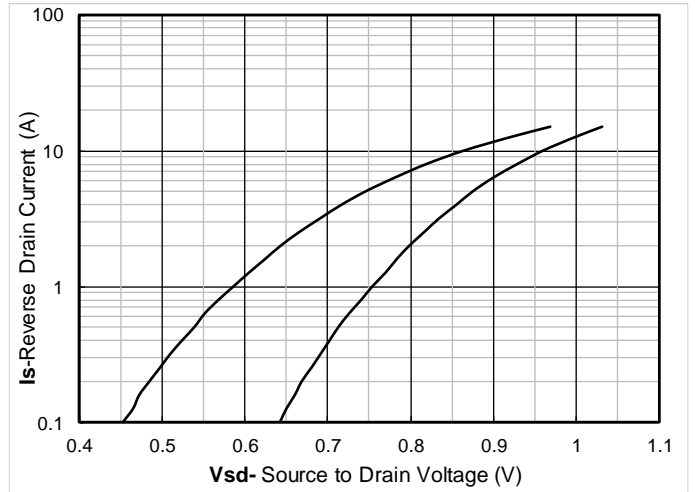


Figure 8. Forward characteristics of reverse diode

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

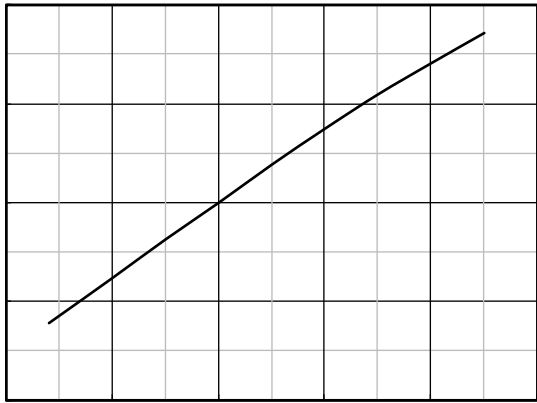


Figure 9. Normalized breakdown voltage

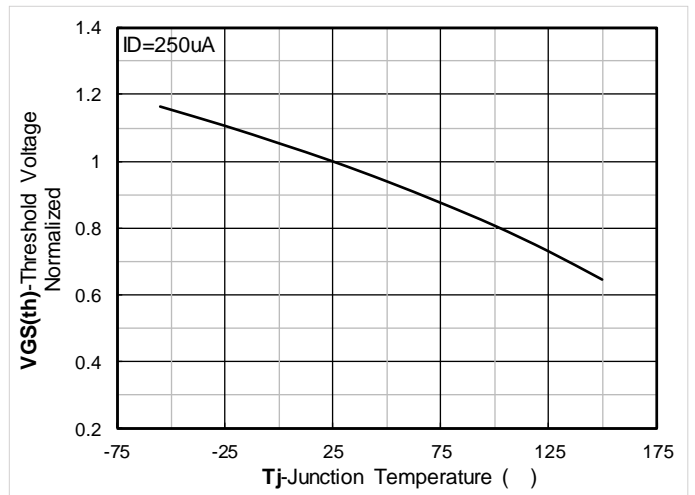


Figure 10. Normalized Threshold voltage

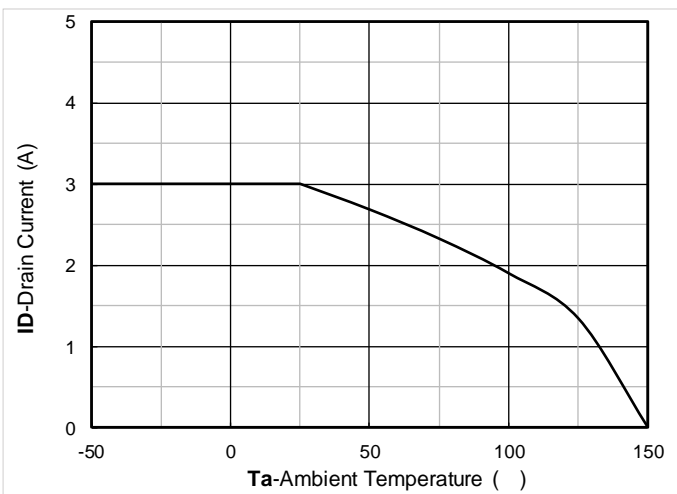


Figure 11. Current dissipation

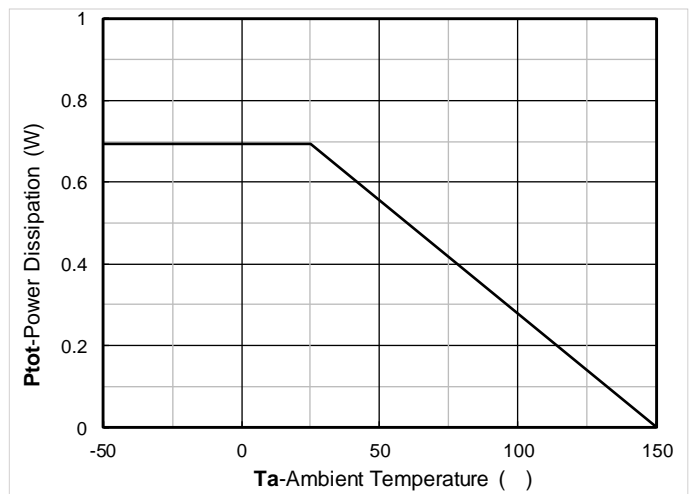


Figure 12. Power dissipation



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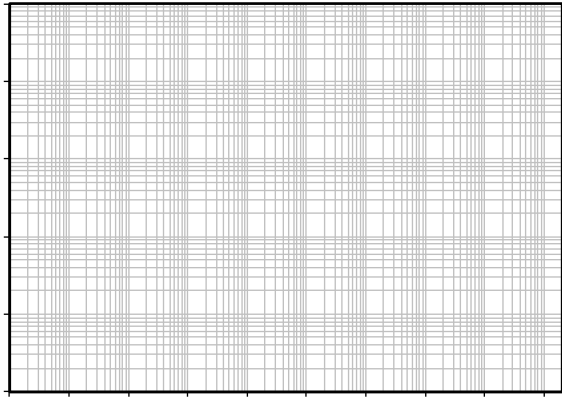


Figure 13. Maximum Transient Thermal Impedance

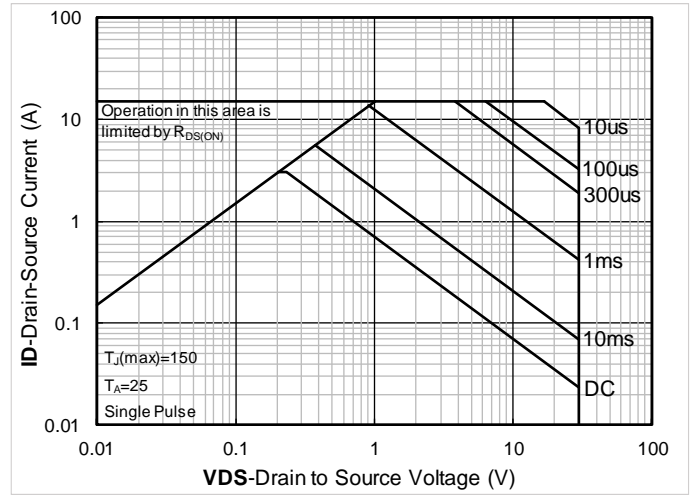


Figure 14. Safe Operation Area

Test Circuits & Waveforms



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



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Figure B. Gate Charge Test Circuit & Waveform

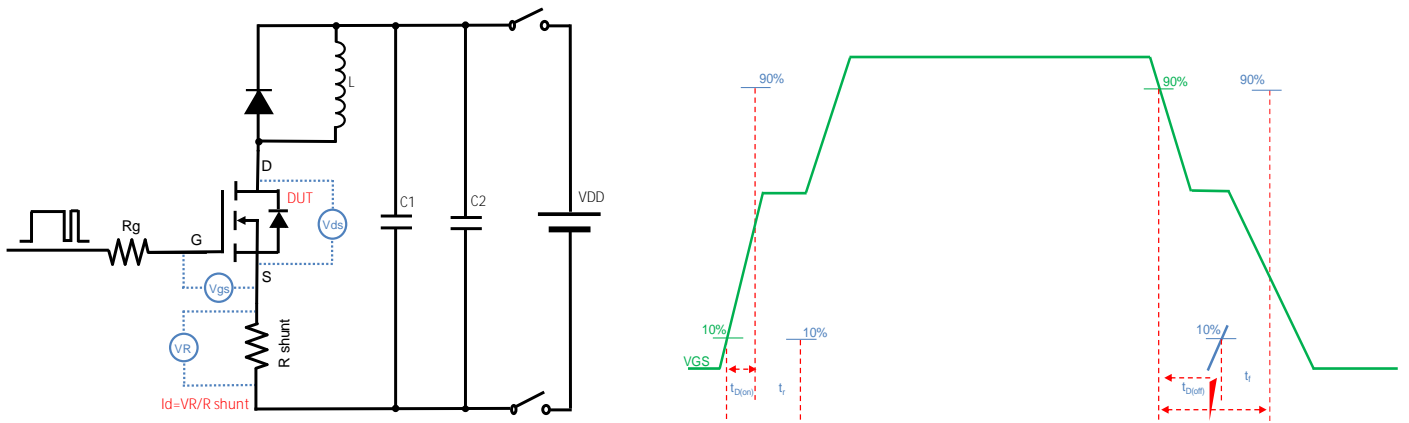


Figure C. Resistive Switching Test Circuit & Waveform

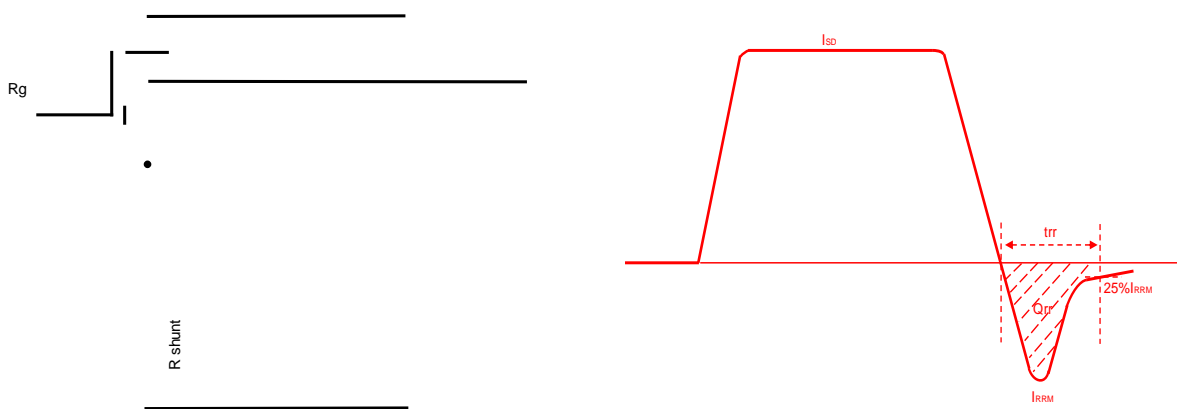
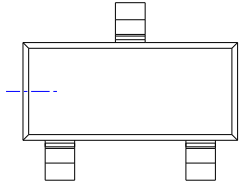


Figure D. Diode Recovery Test Circuit & Waveform



SOT23 Package information



UNIT mm



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