





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



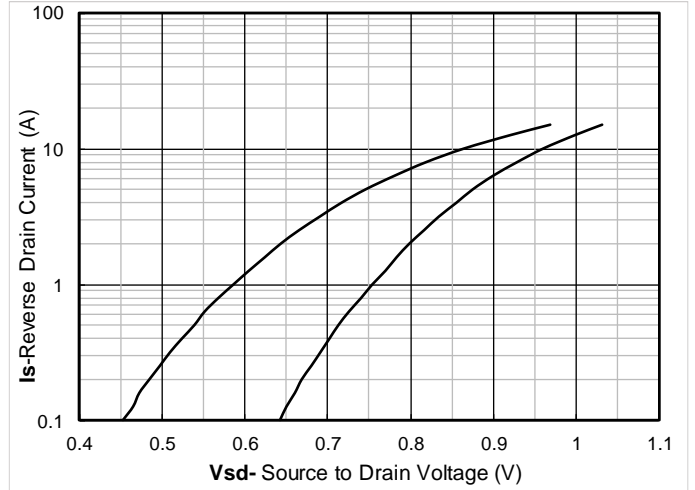


Figure 8. Forward characteristics of reverse diode

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

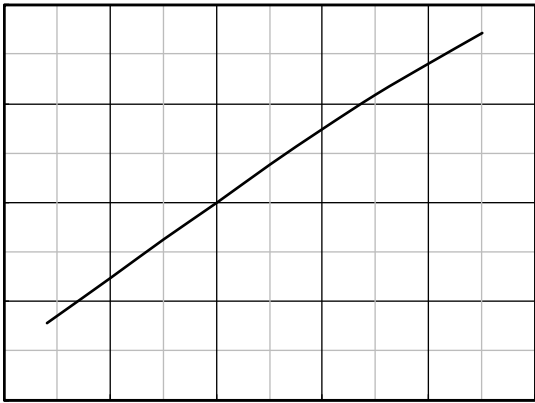


Figure 9. Normalized breakdown voltage

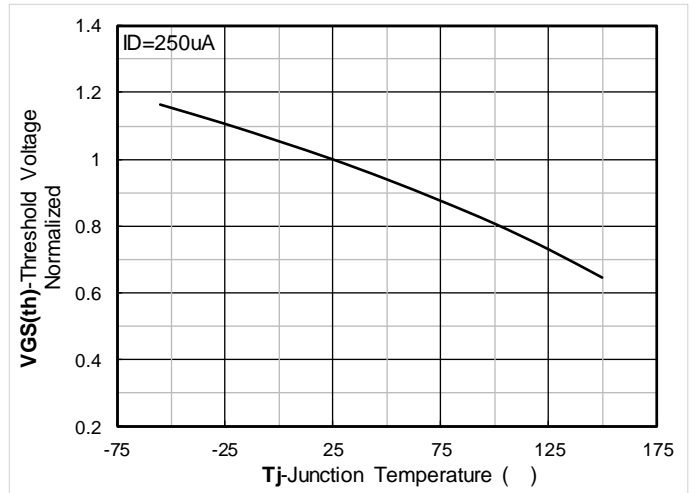


Figure 10. Normalized Threshold voltage

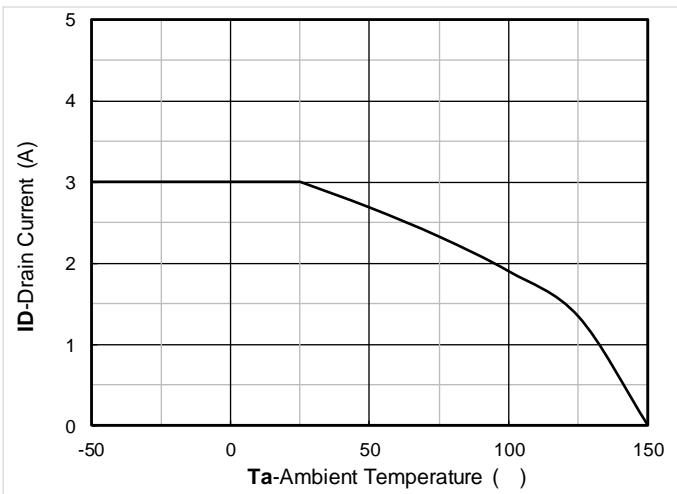


Figure 11. Current dissipation

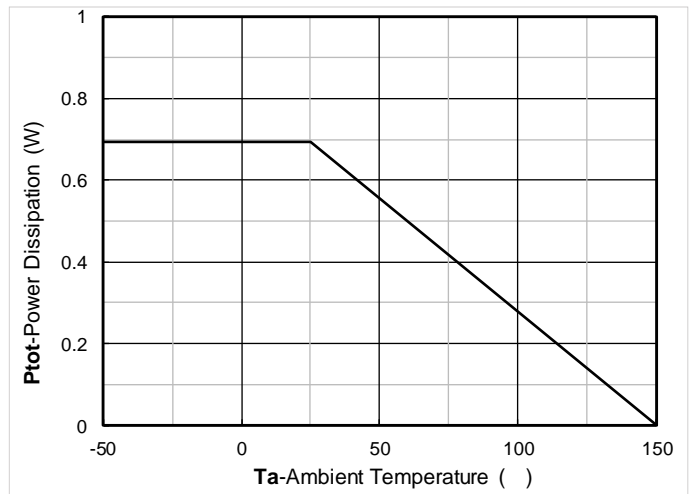


Figure 12. Power dissipation

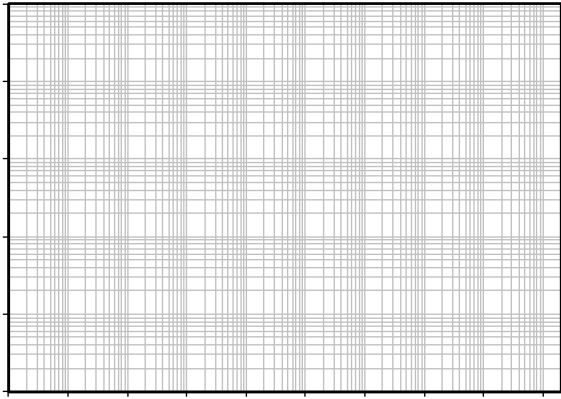


Figure 13. Maximum Transient Thermal Impedance

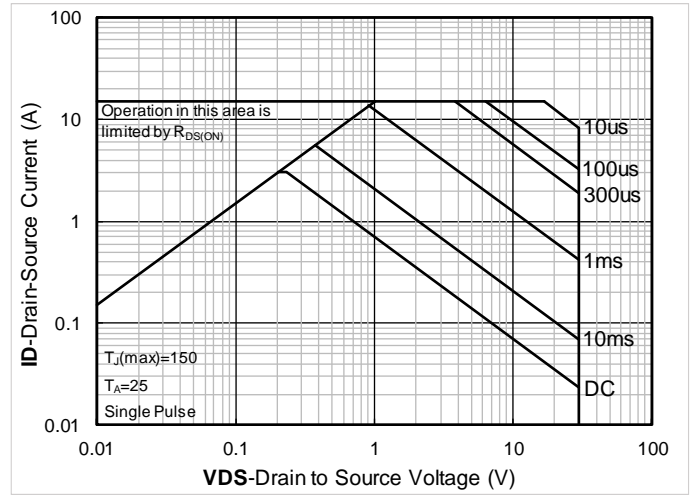


Figure 14. Safe Operation Area

## Test Circuits & Waveforms

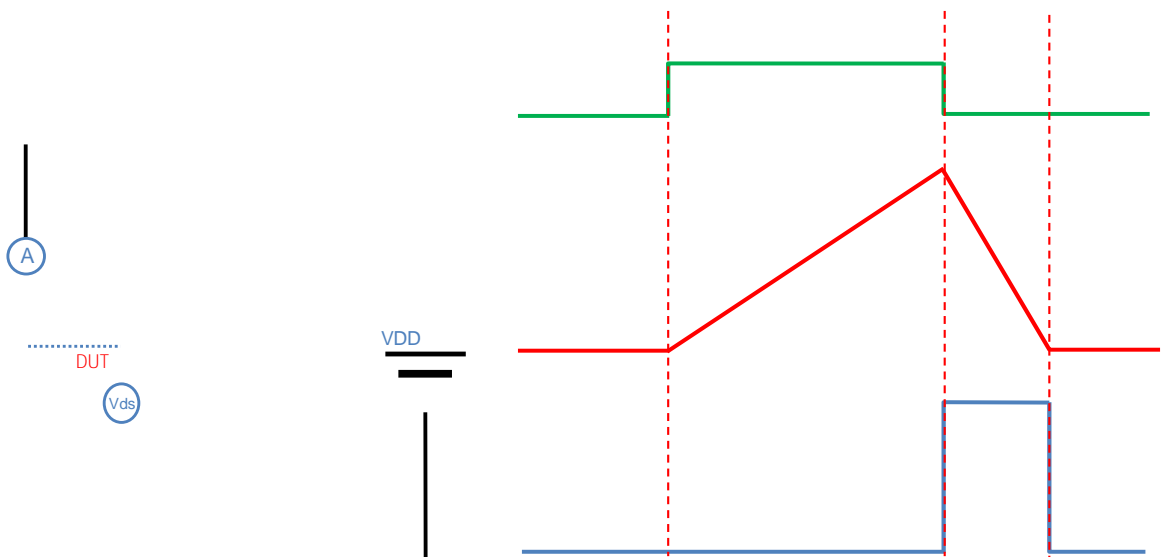


Figure A. Unclamped Inductive Switching (UIS) Test Circuit & Waveform

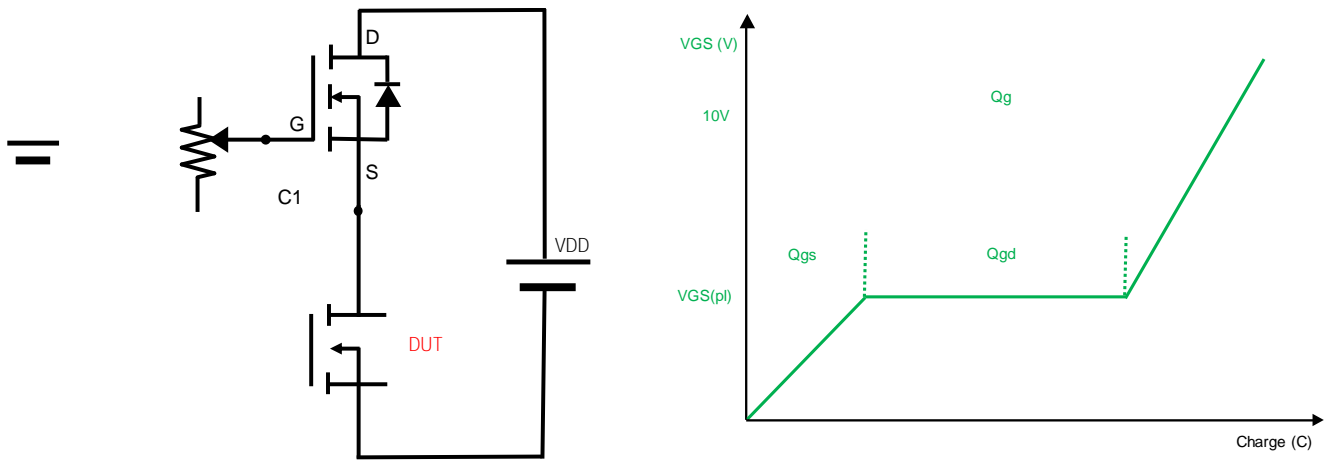


Figure B. Gate Charge Test Circuit & Waveform

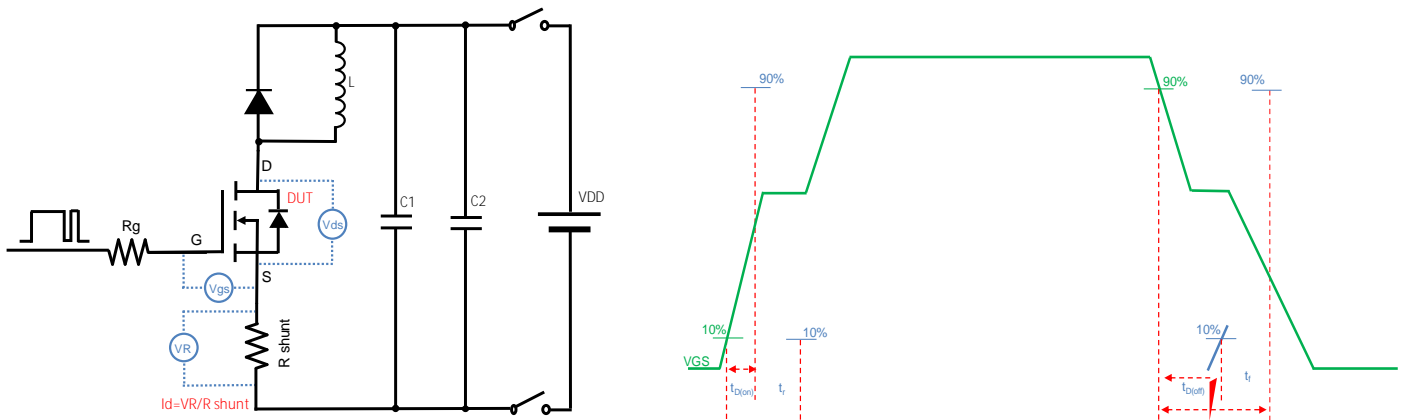


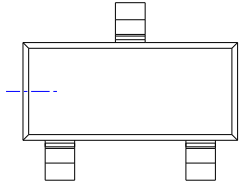
Figure C. Resistive Switching Test Circuit & Waveform



Figure D. Diode Recovery Test Circuit & Waveform



SOT23 Package information



UNIT mm



## YJL03N03B

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