





# BSS123E

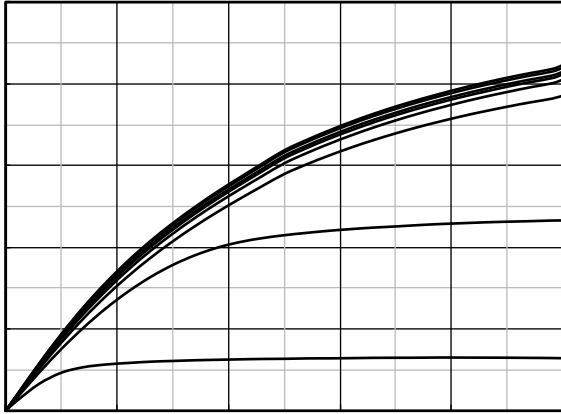
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## Electrical Characteristics ( $T_J=25$ unless otherwise noted)

Parameter	Symbol	
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## Typical Electrical and Thermal Characteristics Diagrams



1. Figure 1. Output Characteris 38.0g 842.04 reW\* n3.5417 -( )JTJETQq0.000008882 0 596.04 842.04 reW\* nBT/F5

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

Figure 8. Forward characteristics of reverse diode

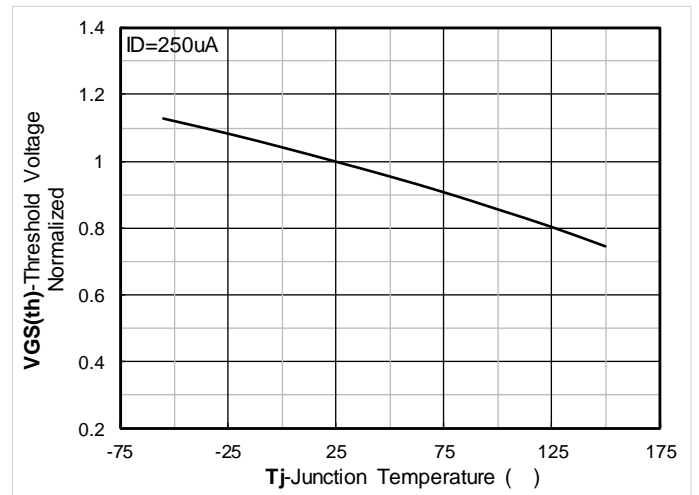
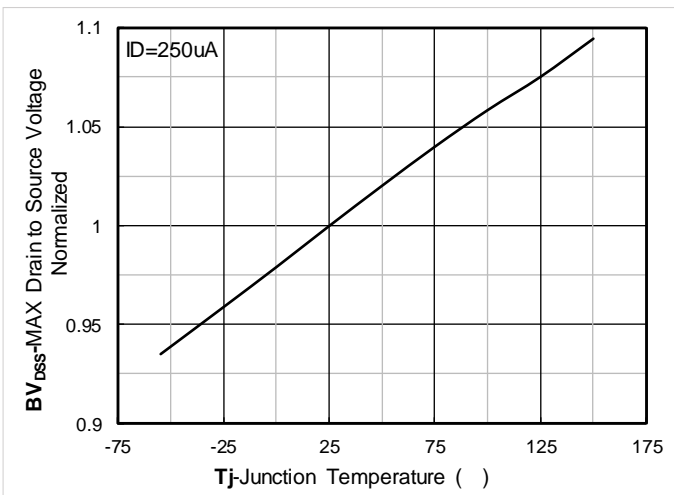


Figure 9. Normalized breakdown voltage

Figure 10. Normalized Threshold voltage

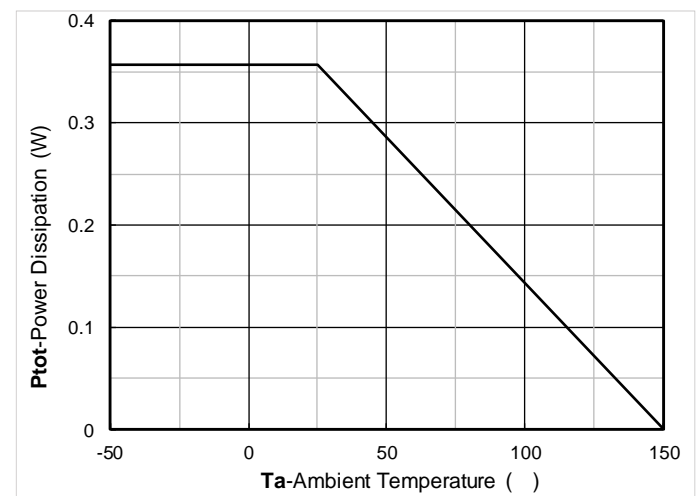
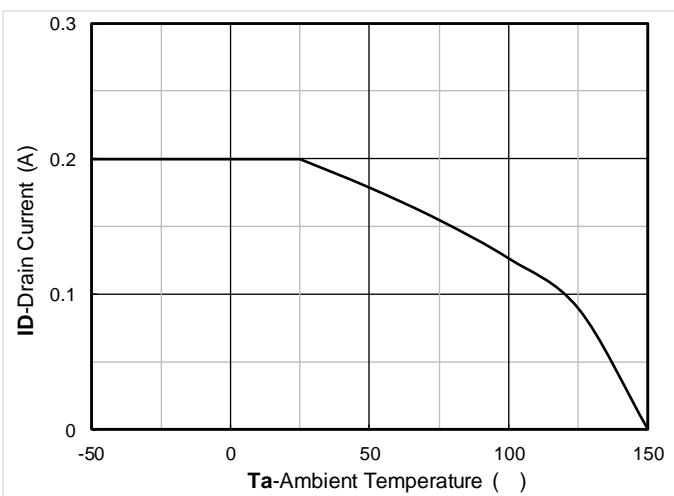


Figure 11. Current dissipation

Figure 12. Power dissipation

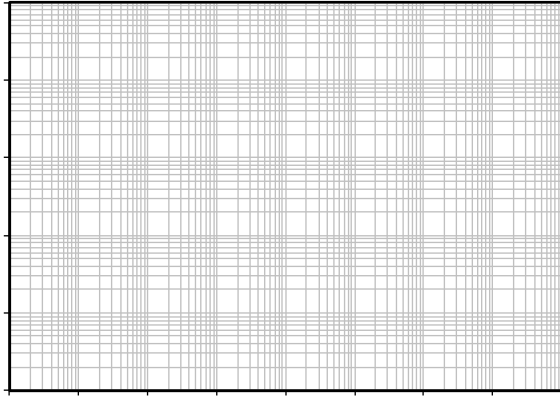


Figure 13. Maximum Transient Thermal Impedance

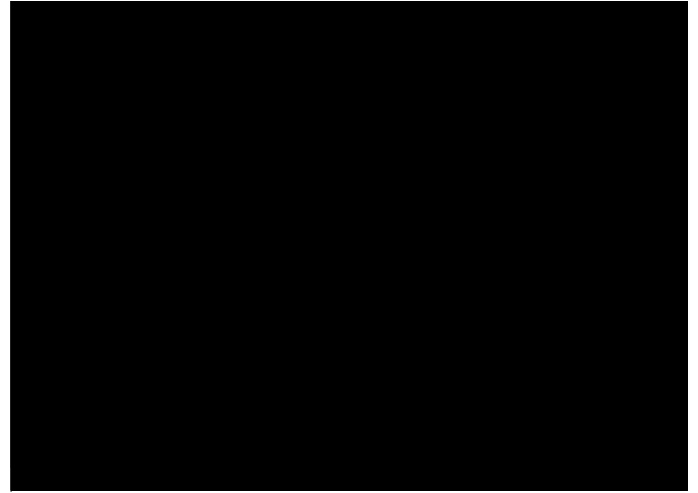


Figure 14. Safe Operation Area

## Test Circuits & Waveforms

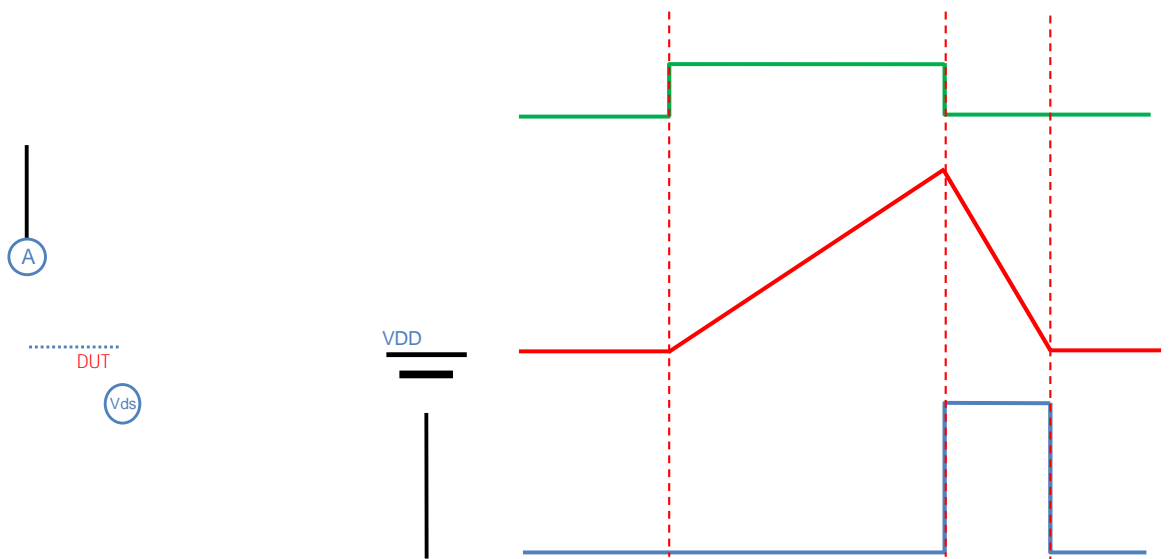


Figure A. Unclamped Inductive Switching (UIS) Test Circuit & Waveform



Figure B. Gate Charge Test Circuit & Waveform



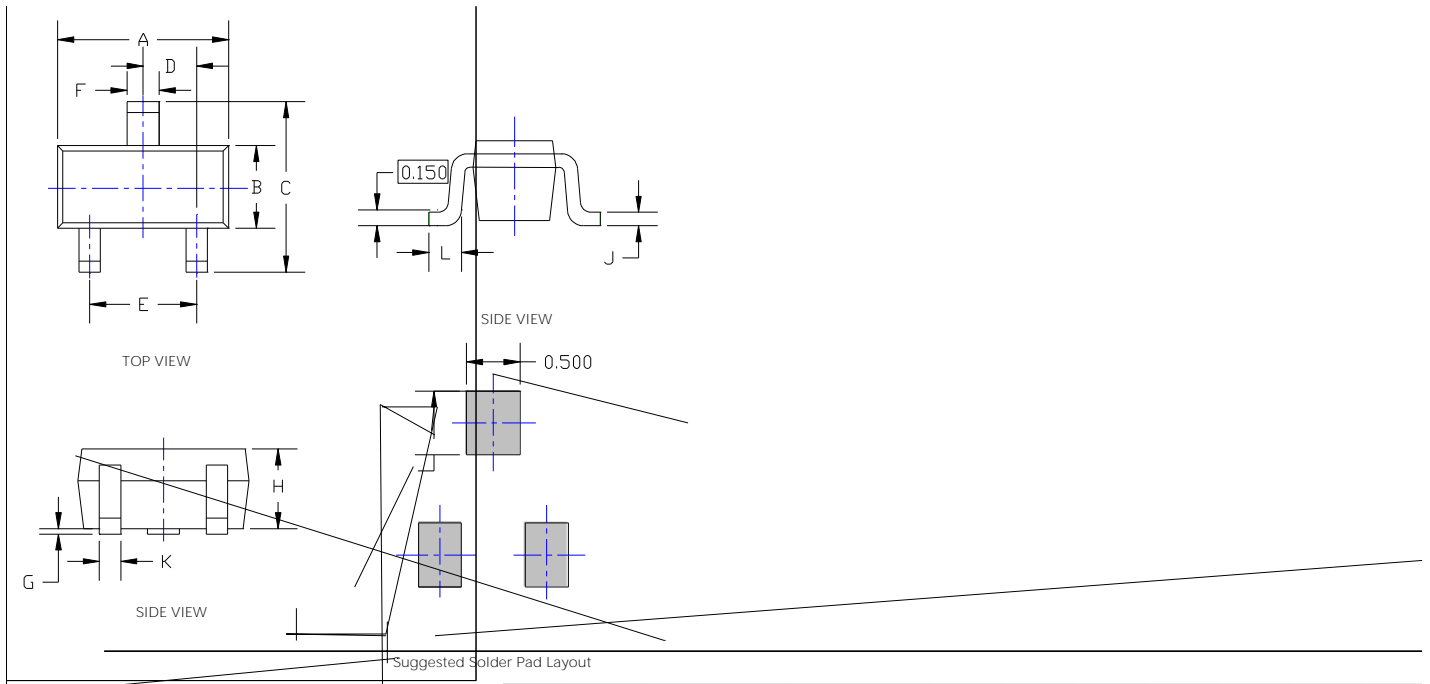
Figure C. Resistive Switching Test Circuit & Waveform



Figure D. Diode Recovery Test Circuit & Waveform



SOT-523 Package information





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