N-Channel Enhancement Mode Field Effect Transistor

Product Summary

- V_{DS} 100V
- I_D 280A
- $R_{DS(ON)}$(at V_{GS}=10V) 2.6mΩ
- $R_{DS(ON)}$(at V_{GS}=6V) 3.0mΩ
- 100% EAS Tested
- 100% V_{DS} Tested

General Description

- Split Gate Trench MOSFET technology
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■ **Electrical Characteristics** (T_J=25 unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Static Parameter						
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}= 0V, I_D=250μA				

Typical Electrical and Thermal Characteristics Diagrams

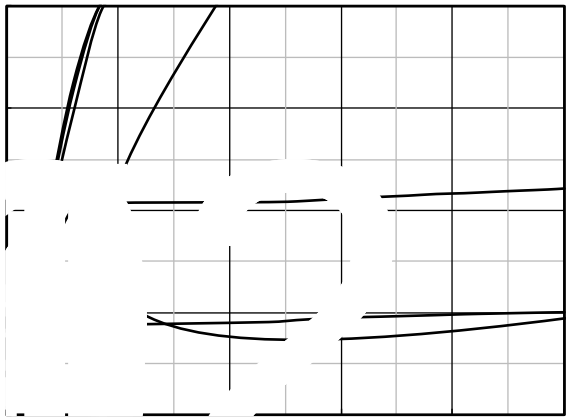

Figure 1. Output Characteristics

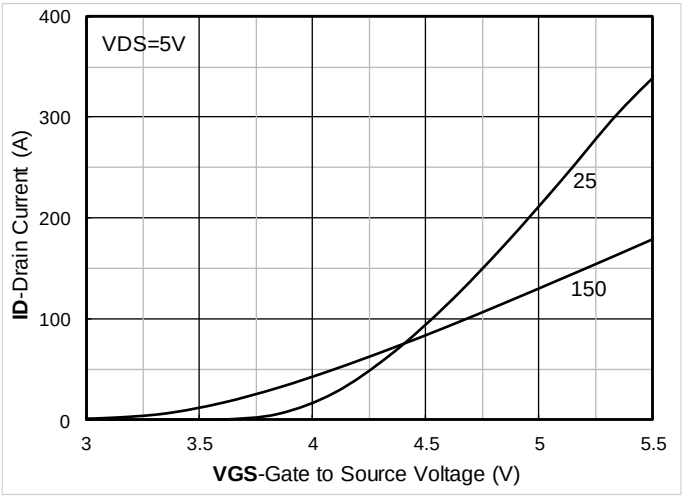

Figure 2. Transfer Characteristics

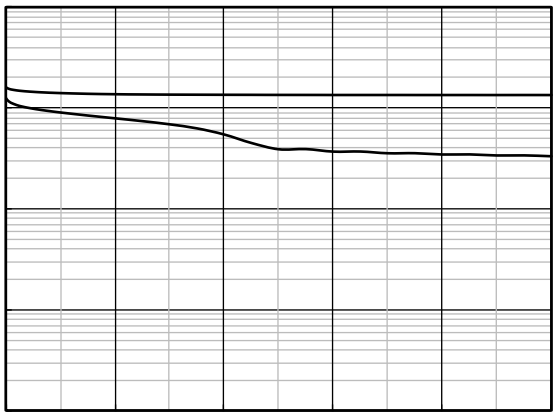

Figure 3. Capacitance Characteristics

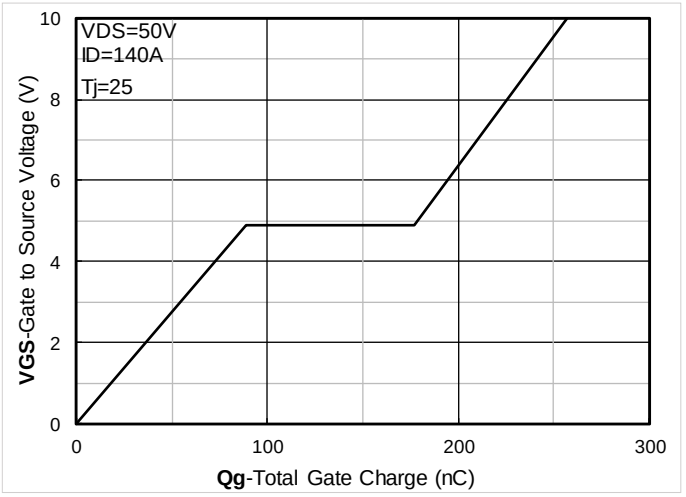

Figure 4. Gate Charge

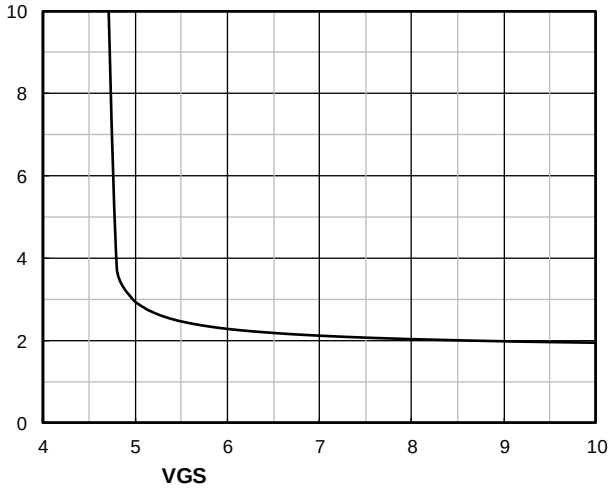

Figure 5. On-Resistance vs Gate to Source Voltage

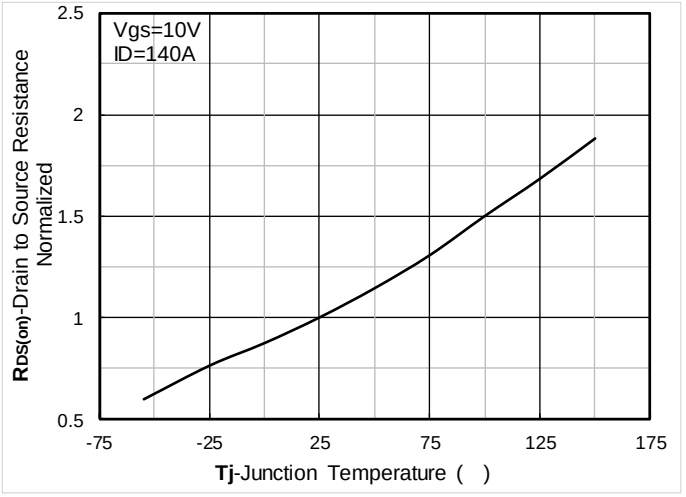

Figure 6. Normalized On-Resistance

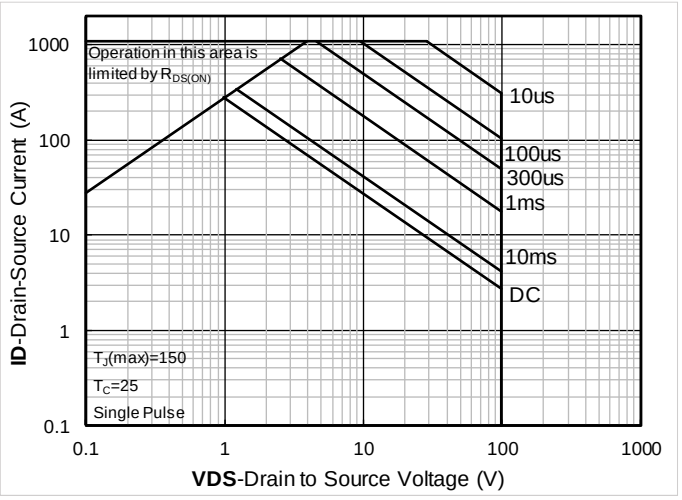

Figure 13. Maximum Transient Thermal Impedance

Figure 14. Safe Operation Area

■ Test Circuits & Waveforms

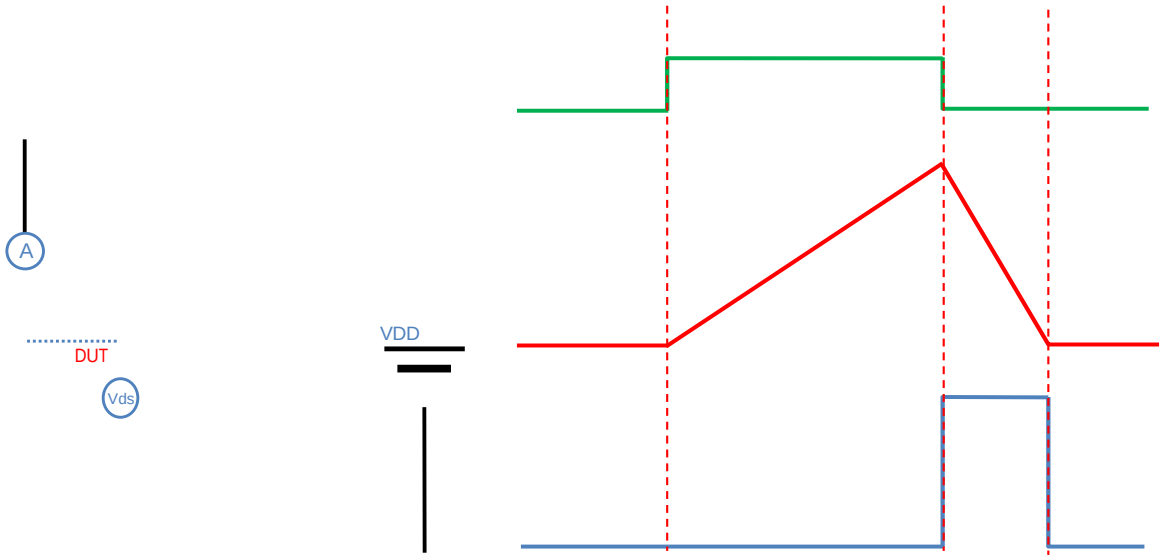

Figure A. Unclamped Inductive Switching (UIS) Test Circuit & Waveform

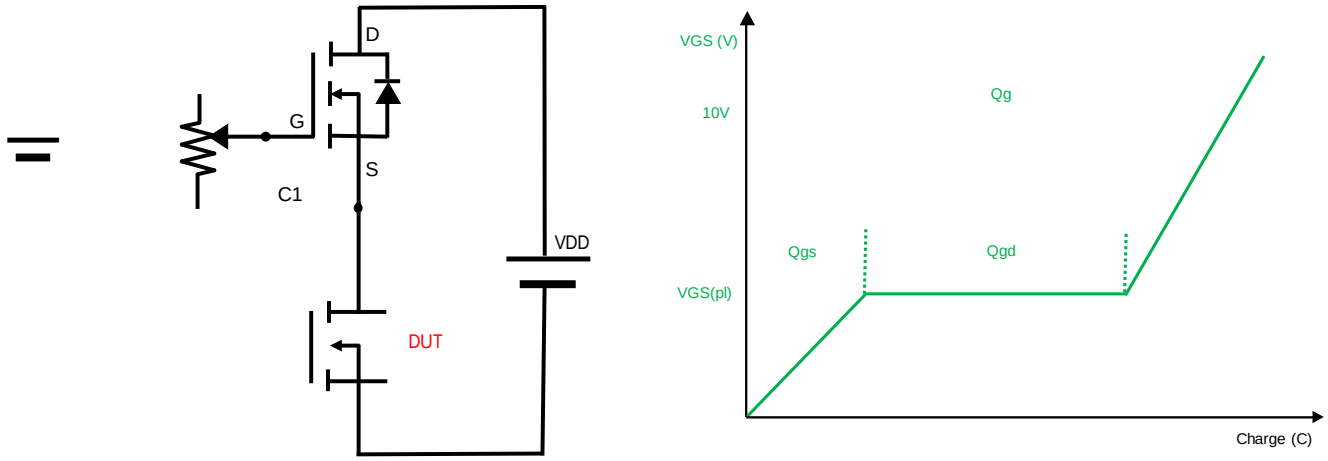

Figure B. Gate Charge Test Circuit & Waveform

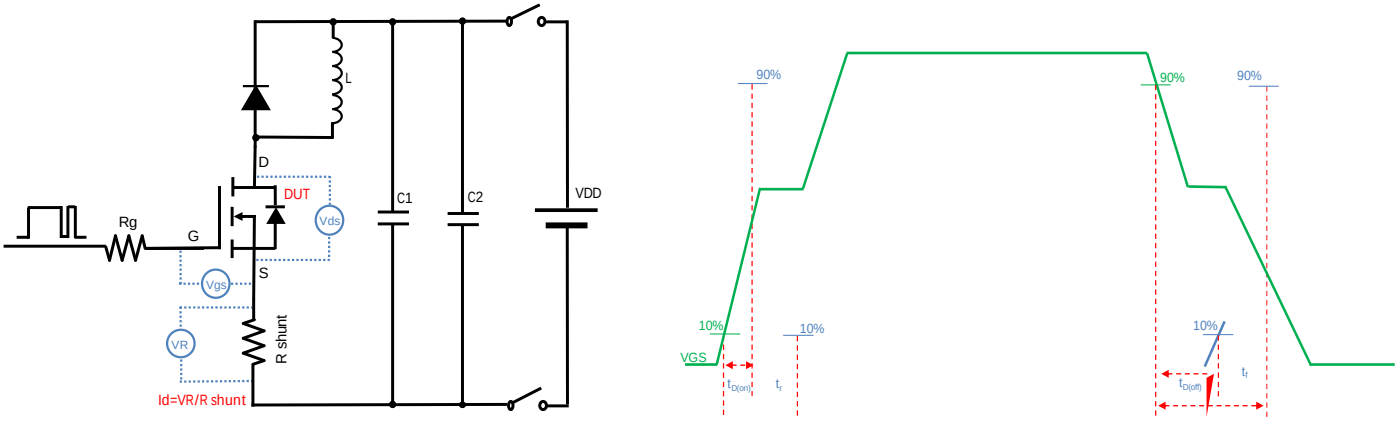

Figure C. Resistive Switching Test Circuit & Waveform

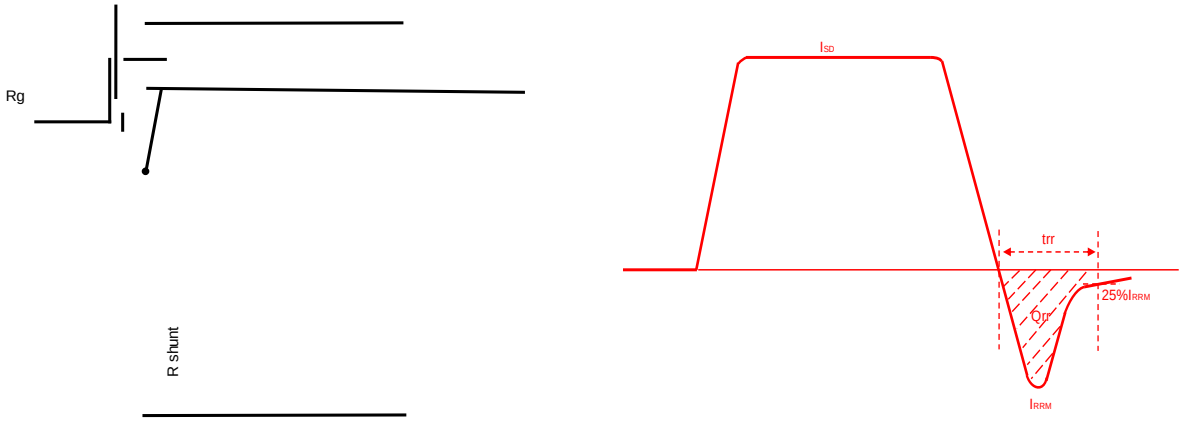

Figure D. Diode Recovery Test Circuit & Waveform

■ TO-247AB Package information

TO-247AB		
Dim	Min	Max
A	4.80	5.20

Disclaimer

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