

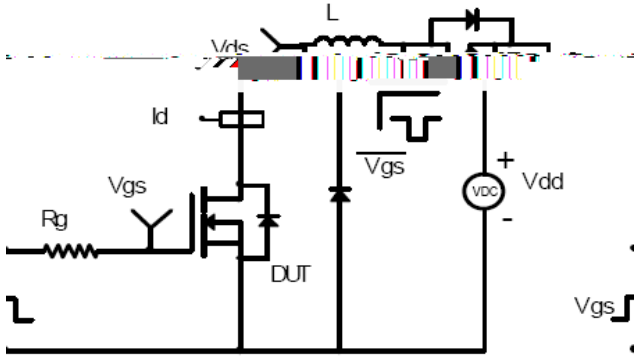


Thermal Resistance

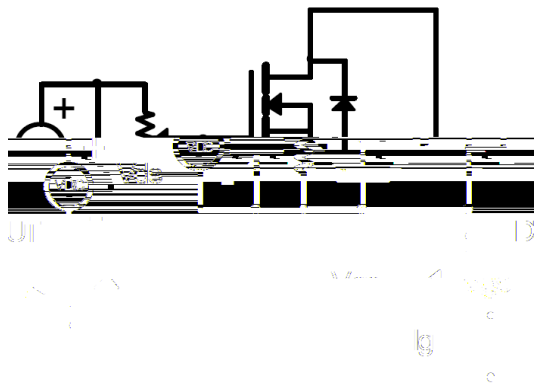
Symbol Characterizes

Test Circuits and Waveforms

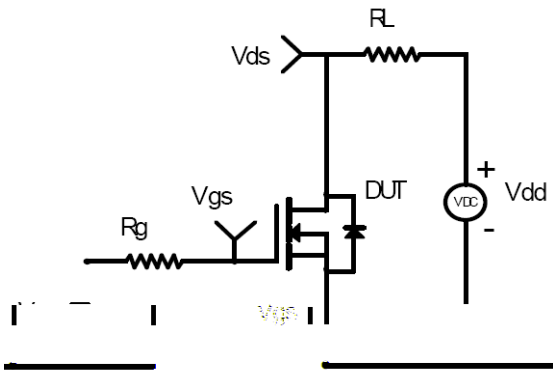
EAS Test Circuit:



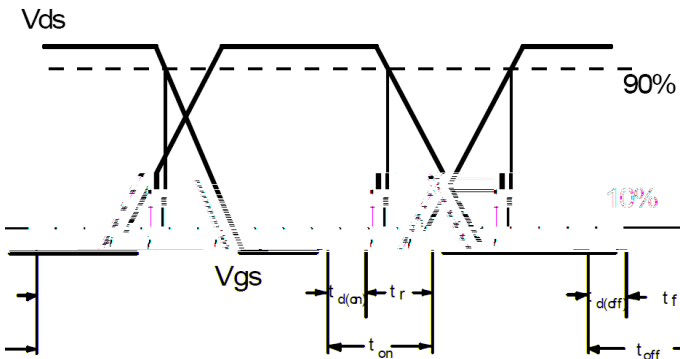
Gate Charge Test Circuit:



Switching Time Test Circuit:



Switching Waveforms:



Notes:

- Calculated continuous current based on maximum allowable junction temperature.
- Repetitive rating; pulse width limited by max. junction temperature.
- The power dissipation PD is based on max. junction temperature, using junction-to-case thermal resistance.

Typical Electrical and Thermal Characteristics

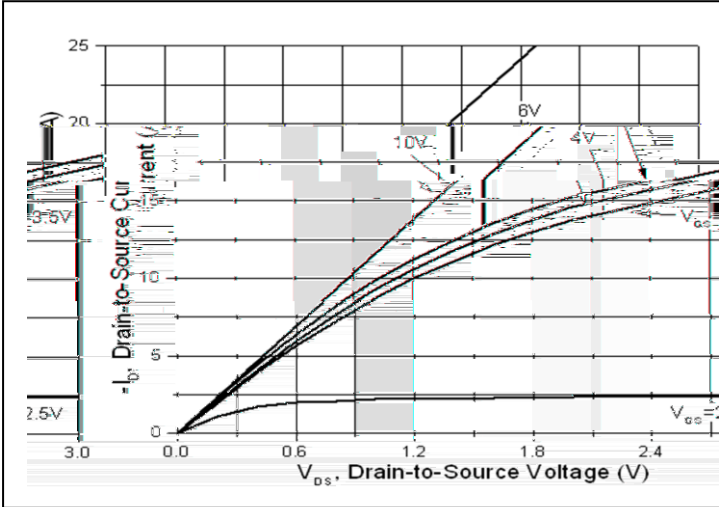


Figure1. Typical Output Characteristics

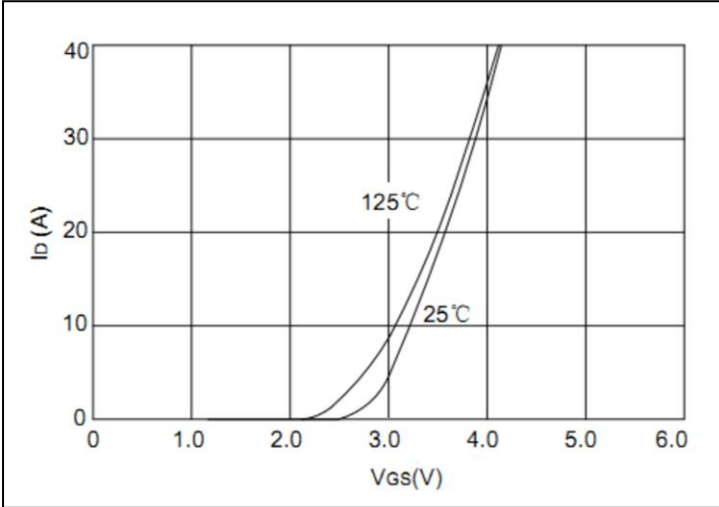


Figure2. Transfer Characteristics

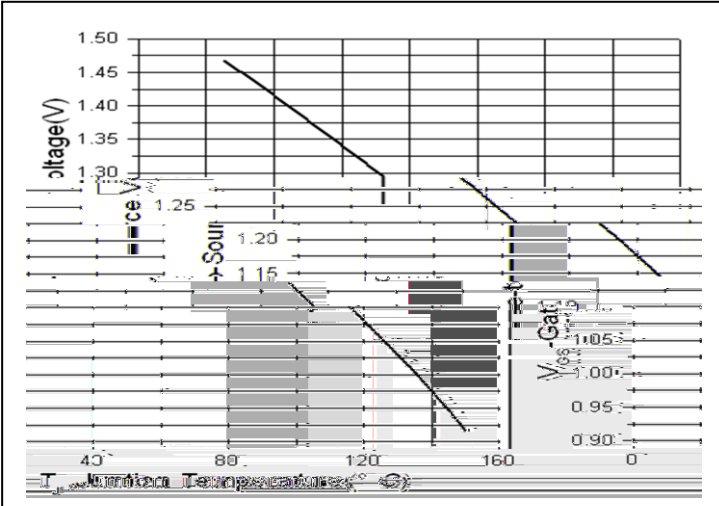


Figure3. Gate to Source Cut-off Voltage

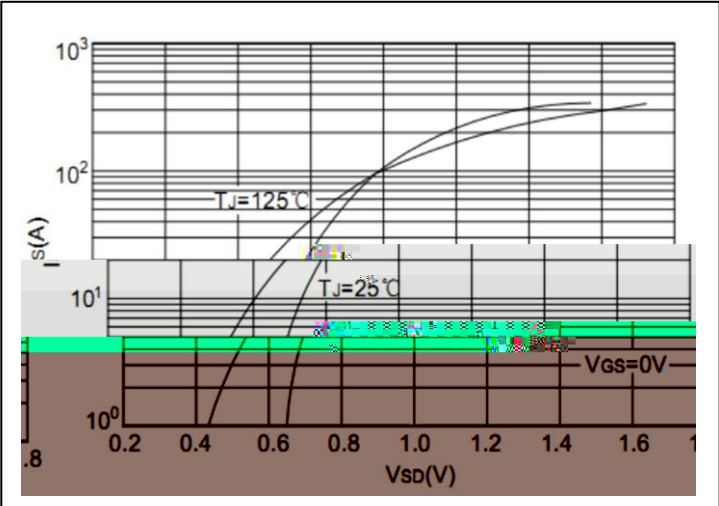


Figure4. Body Diode Characteristics

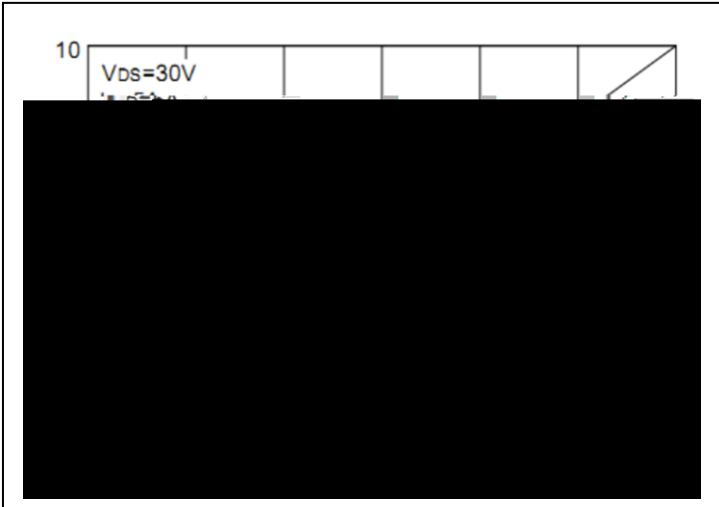


Figure5. Gate Charge

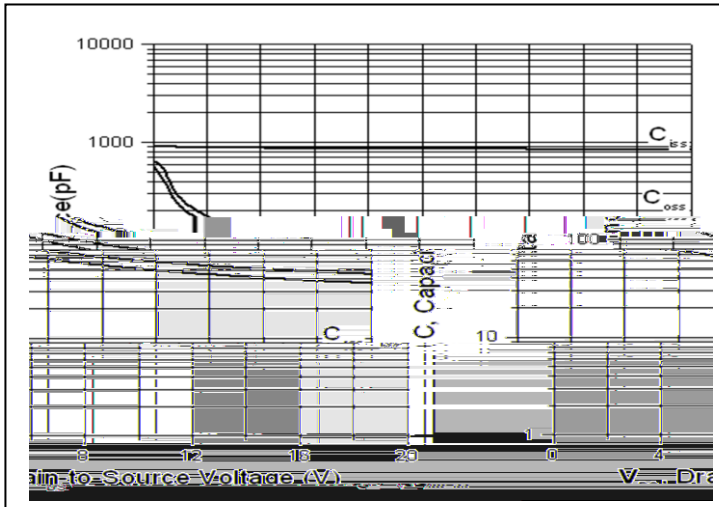


Figure6. Capacitance

Typical Electrical and Thermal Characteristics

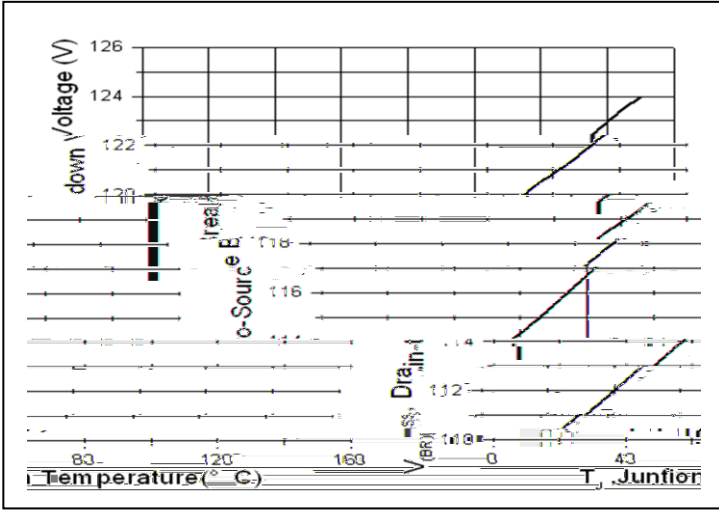


Figure 7. Drain-to-Source Breakdown Voltage vs. Junction Temperature

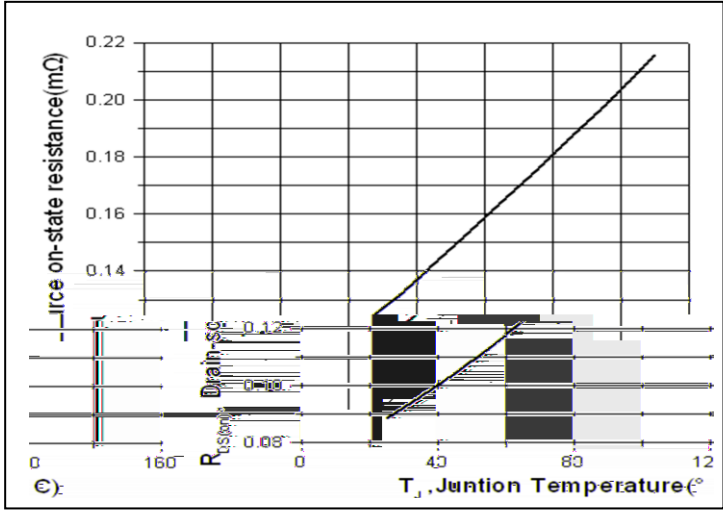


Figure 8. Normalized On-Resistance vs. Junction Temperature

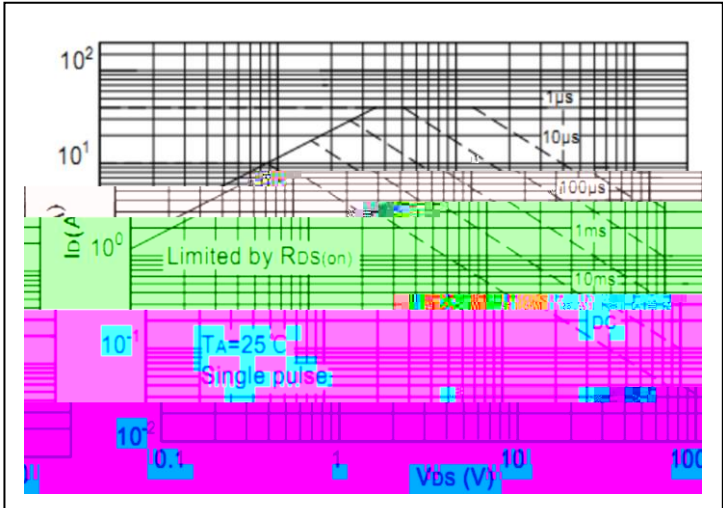


Figure 9. Safe Operating Area

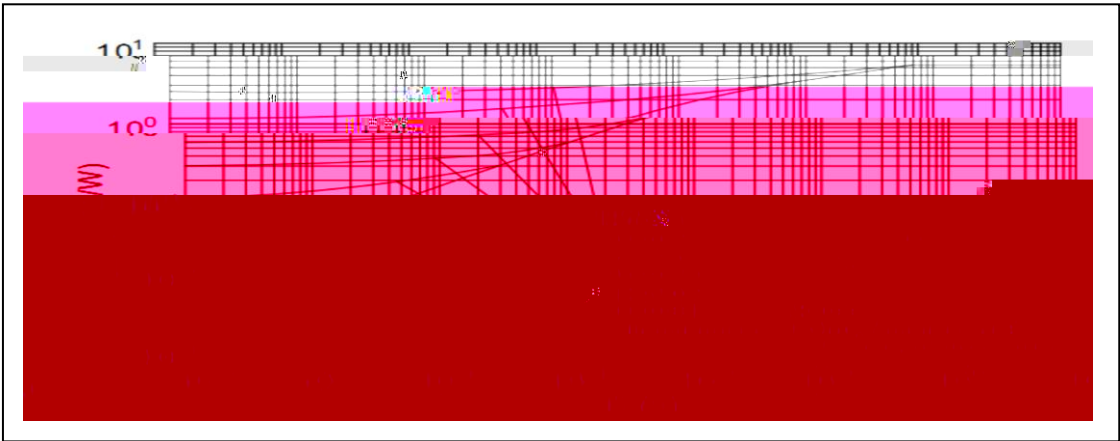
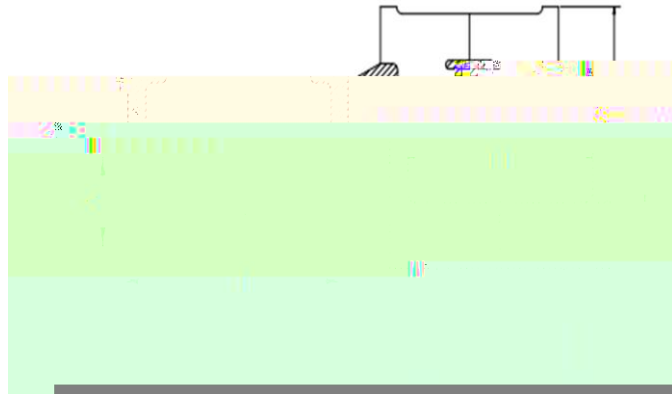
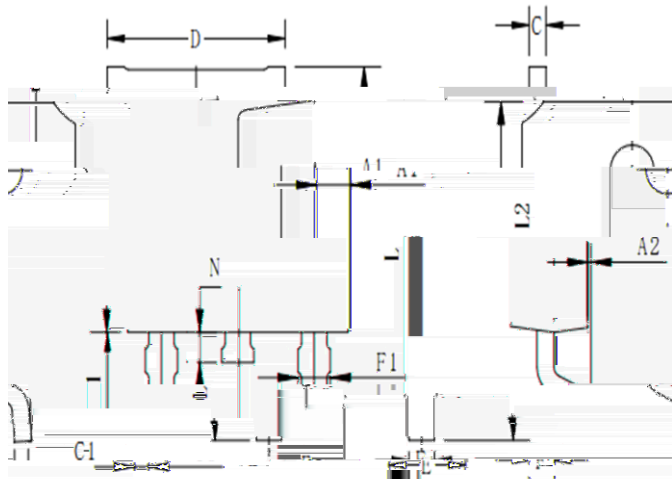


Figure 10. Normalized Maximum Transient Thermal Impedance



Mechanical Data

TO-252 Package Outline(Unit:mm)



Symbol	Dimension	Value	Symbol	Dimension	Value
B	6.50	6.60	A2	0.91	
C	0.40	0.50	A1	0.25	
C1	0.40	0.50			
D	5.15	5.20			
D1	5.10	5.25			
E	2.20	2.29			
E1	4.95	5.15			
F1	0.66	0.70			
N	0.82	0.95			
	9.90	10.10			
	2.87	3.07			
	6.10	6.20			
	6.60	6.80			

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