



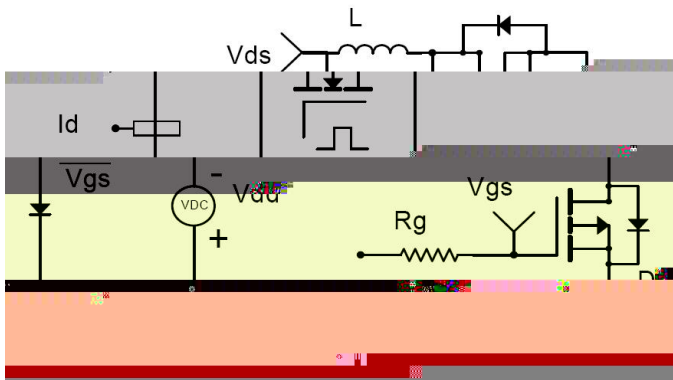
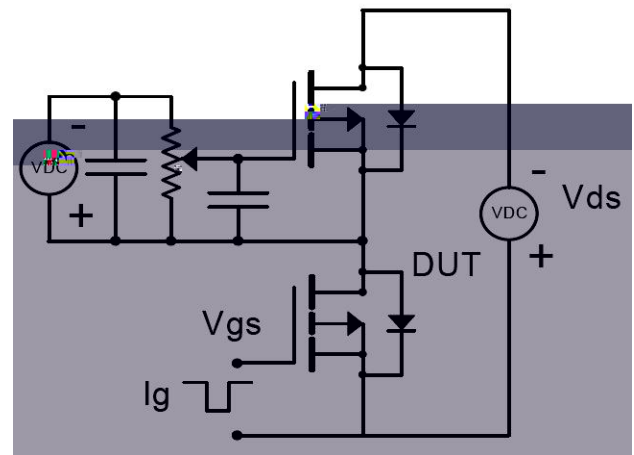
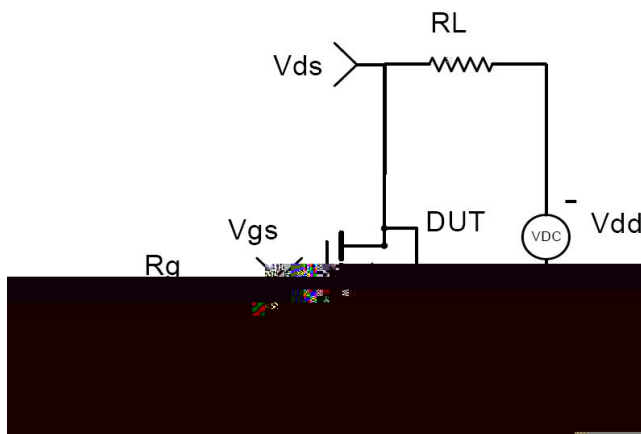
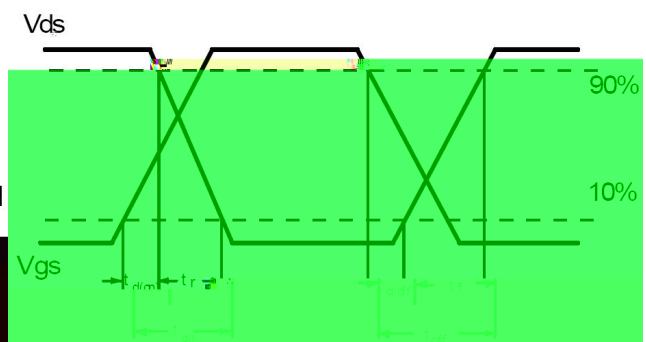
**Thermal Resistance**

Symbol	Characterizes	Typ.	Max.	Units
$R_{JA}$	Junction-to-ambient ( $t = 10s$ )	—	31.2	/W

**Electrical Characterizes** @ $T_A=25$  unless otherwise specified

Symbol	Parameter	Min.	Typ.	Max.	Units	Conditions
$V_{(BR)DSS}$	Drain-to-Source breakdown					

## 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  $P_D$  is based on max. junction temperature, using junction-to-case thermal resistance.

The value of  $R_{JA}$  is measured with the device mounted on 1 in 2 FR-4 board with 2oz. Copper, in a still air environment with  $T_A = 25^\circ\text{C}$

Typical Electrical and Thermal Characteristics

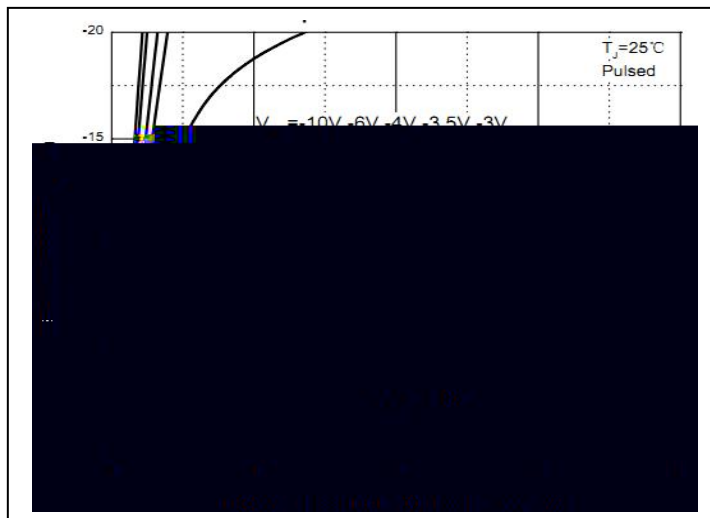


Figure 1. Typical Output Characteristics

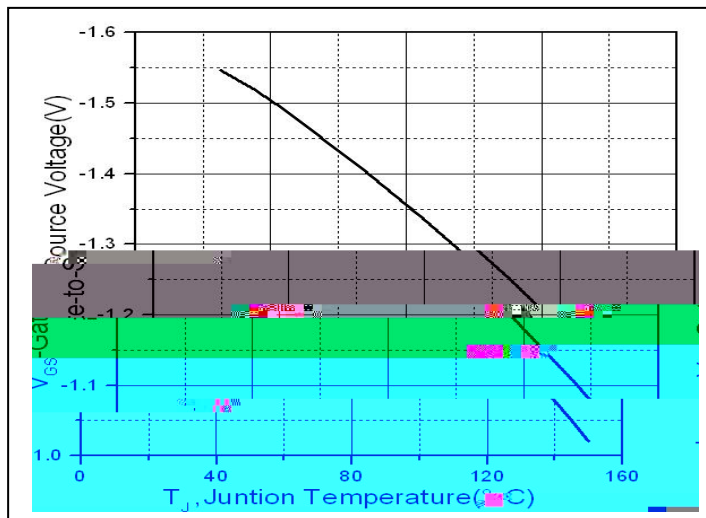


Figure 2. Normalized  $V_{GS(th)}$  vs. Junction Temperature

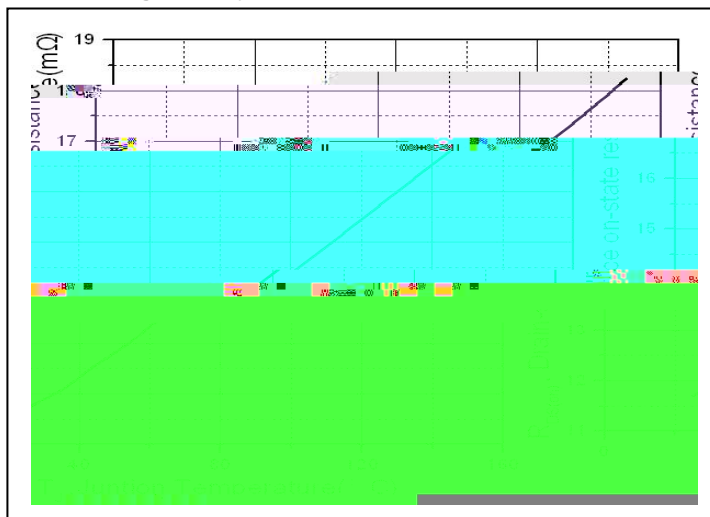


Figure 3. Normalized On-Resistance vs. Junction Temperature

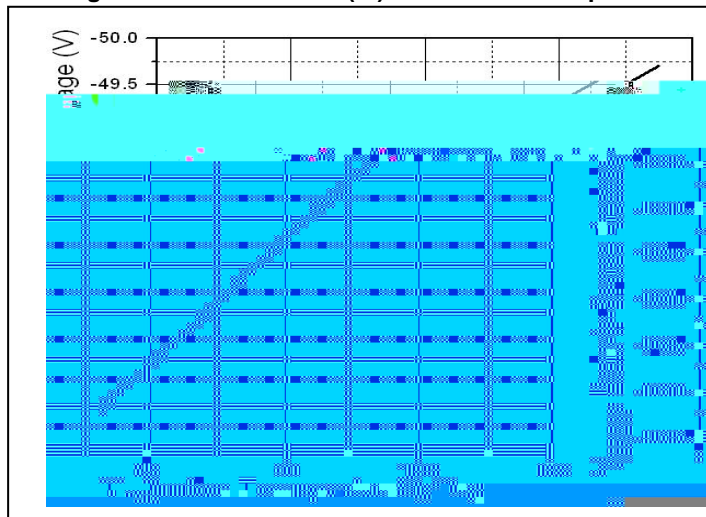


Figure 4. Drain-to-Source Breakdown Voltage vs. Junction Temperature

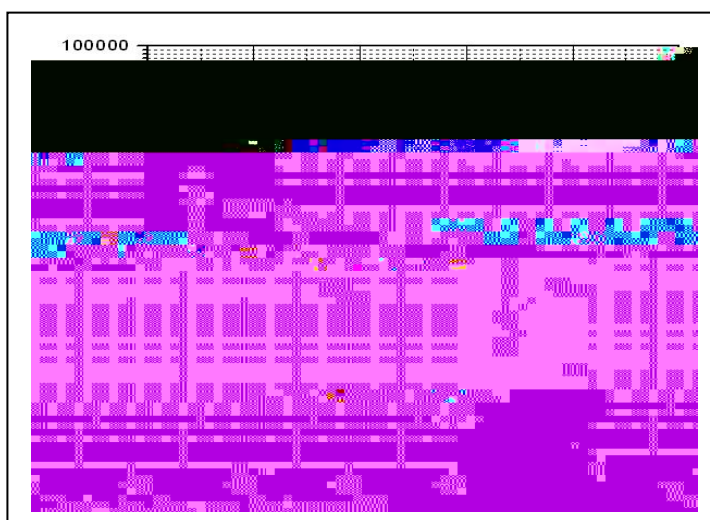


Figure 5. Capacitance Characteristics

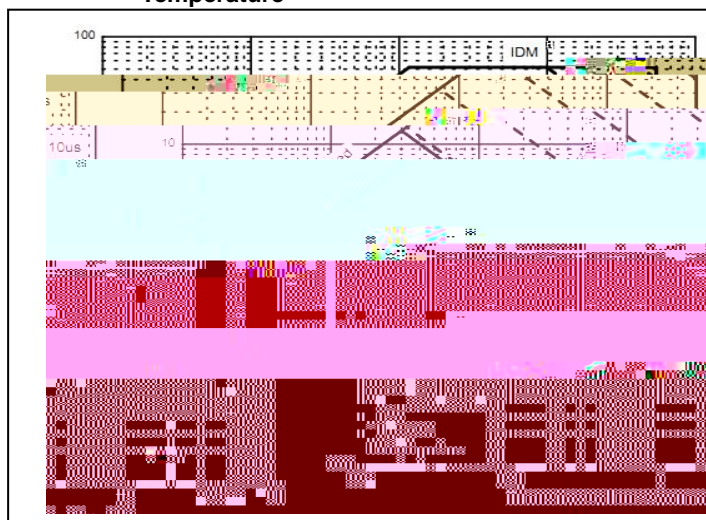
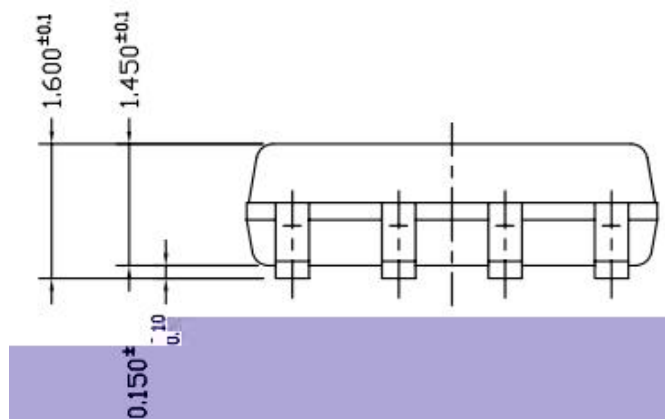
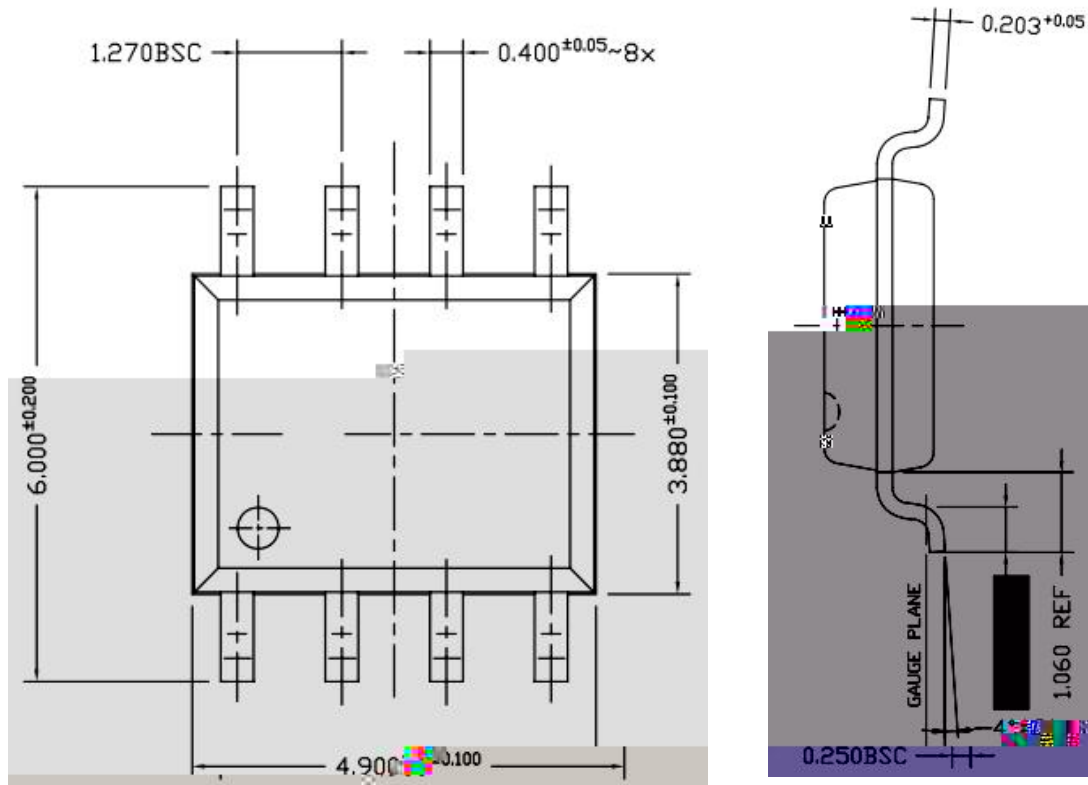


Figure 6. Safe Operation Area

Mechanical Data

SOP-8 Package Outline (Unit:mm)



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