



General Description

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit

Thermal Characteristics

Parameter	Symbol	Value	Unit

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition

Dynamic Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition

Gate Charge Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition

Body Diode Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition

Note



Electrical Characteristics Diagrams

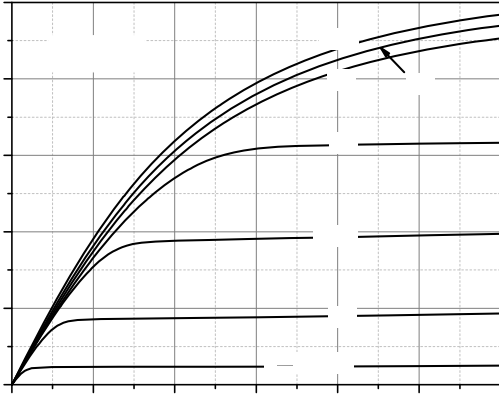


Figure 1. Typ. output characteristics

Figure 2. Typ. transfer characteristics

Figure 3. Typ. capacitances

Figure 4. Typ. gate charge

Figure 5. Drain-source breakdown voltage

Figure 6. Drain-source on-state resistance

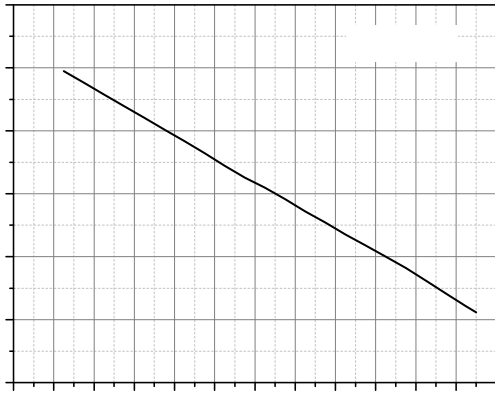


Figure 7. Threshold voltage

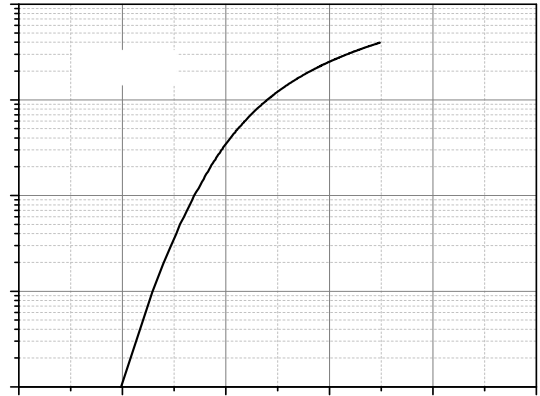


Figure 8. Forward characteristic of body diode

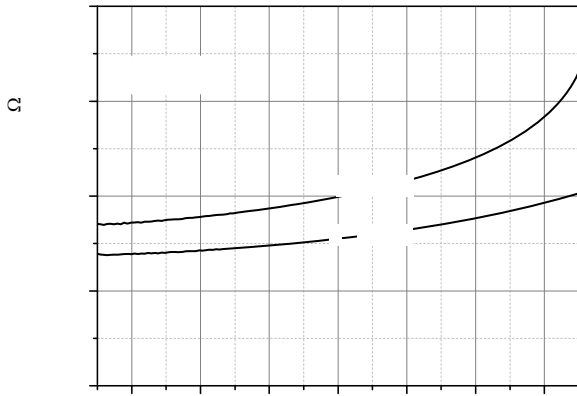


Figure 9. Drain-source on-state resistance

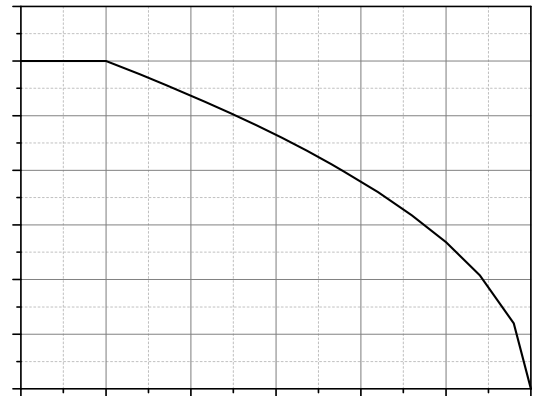


Figure 10. Drain current

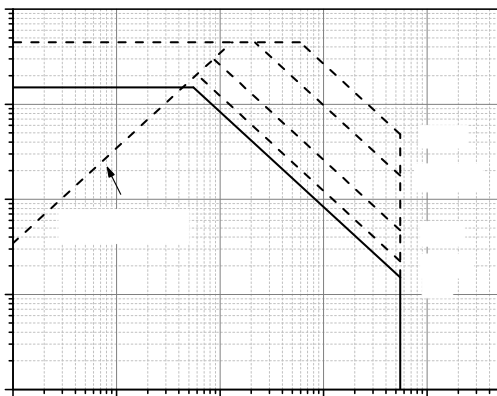


Figure 11. Safe operation area $T_c = 25\text{ }^\circ\text{C}$

Test circuits and waveforms

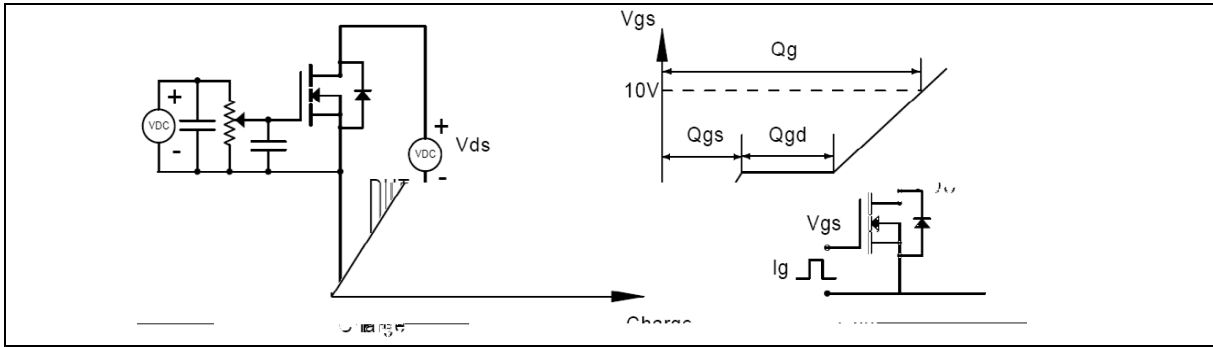


Figure 1. Gate charge test circuit & waveform

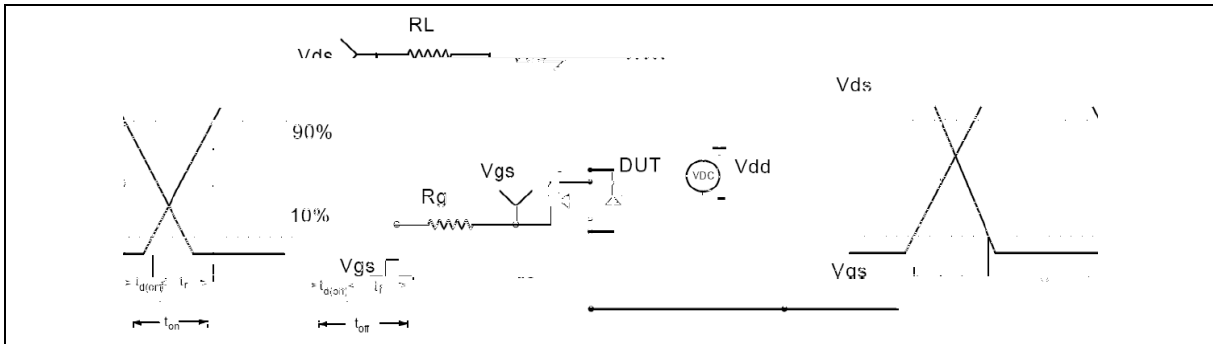


Figure 2. Switching time test circuit & waveforms

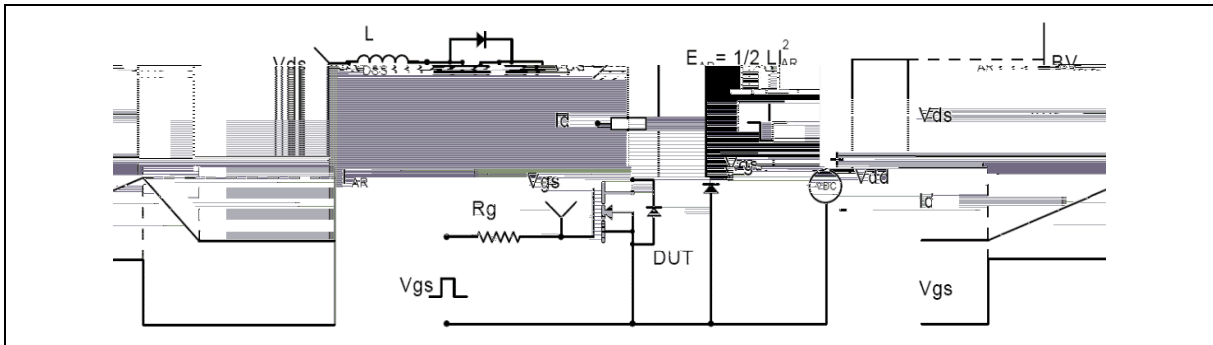


Figure 3. Unclamped inductive switching (UIS) test circuit & waveforms



Figure 4. Diode reverse recovery test circuit & waveforms

Ordering Information

Package Type	Units/ Reel	Reels / Inner Box	Units/ Inner Box	Inner Box/ Carton Box	Units/ Carton Box

Product Information

Product	Package	Pb Free	RoHS	Halogen Free

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