

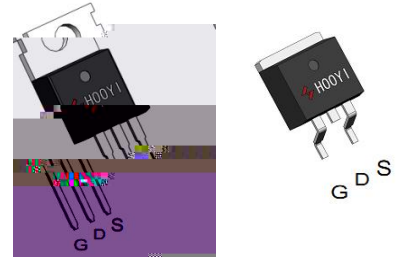
# HYG067N07NQ1P/B

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## Feature

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## Pin Description



## Applications

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## Ordering and Marking Information

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# **HYG067N07NQ1P/B**

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## **Absolute Maximum Ratings**

<b>Symbol</b>	<b>Parameter</b>	<b>Rating</b>	<b>Unit</b>
<b>Common Ratings</b>			

**Mounted on Large Heat Sink**

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## Electrical Characteristics (Cont.)

Symbol	Parameter	Test Conditions	HYG067N07NQ1			Unit
			Min	Typ.	Max	
<b>Dynamic Characteristics</b>						
<b>Gate Charge Characteristics</b>						

# HYG067N07NQ1P/B

## Typical Operating Characteristics

Figure 1: Power Dissipation

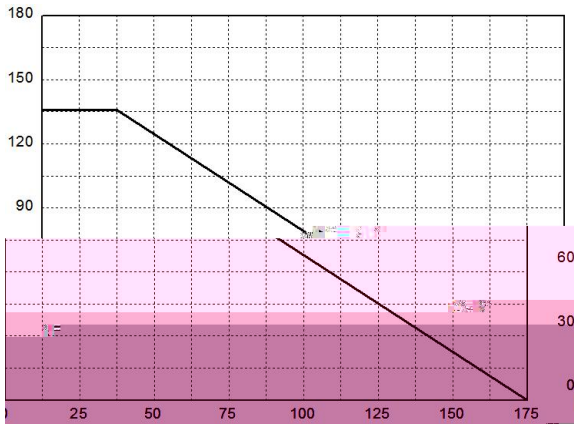


Figure 2: Drain Current

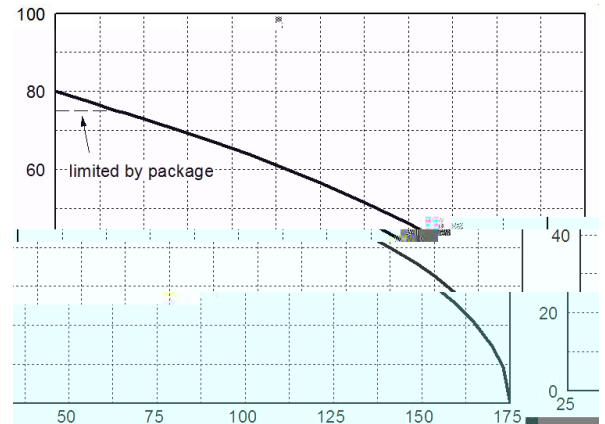


Figure 3: Safe Operation Area

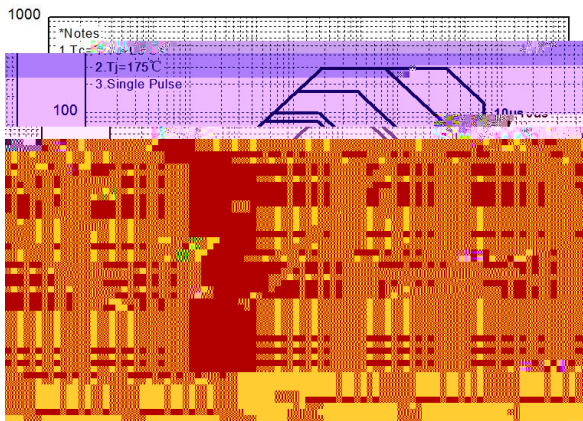
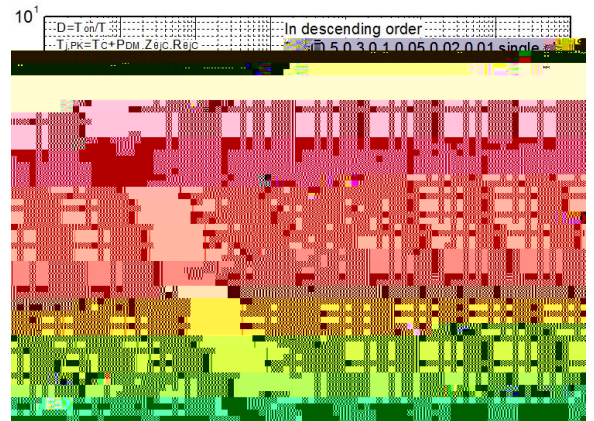


Figure 4: Thermal Transient Impedance



Maximum Effective Transient Thermal Impedance Junction to Case

Figure 5: Output Characteristics

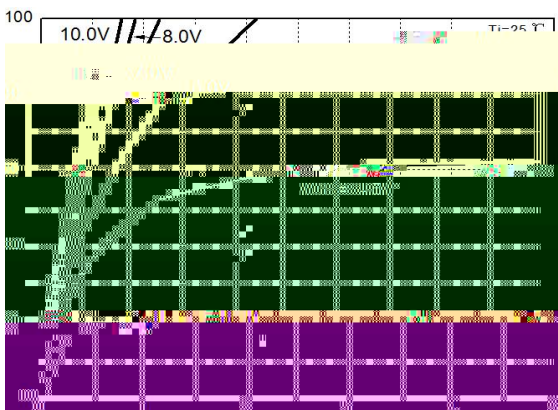
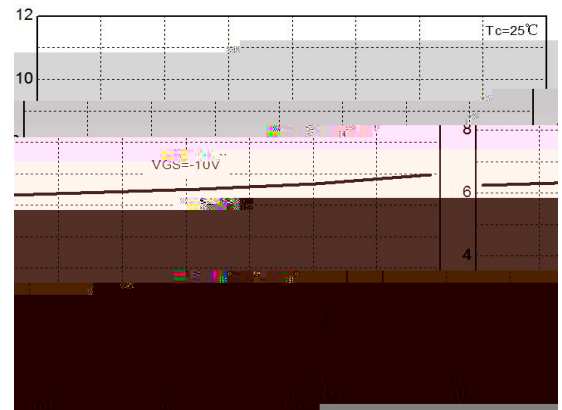


Figure 6: Drain-Source On Resistance



## Typical Operating Characteristics(Cont.)

Figure 7: On-Resistance vs. Temperature

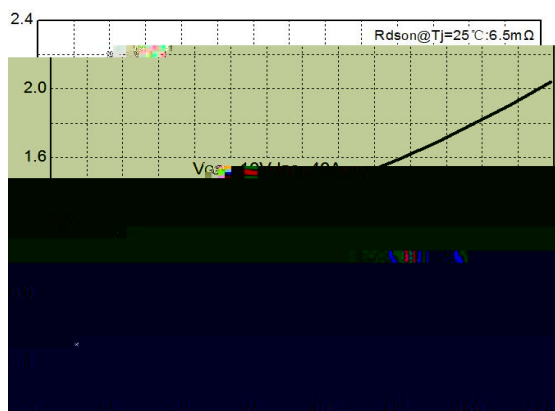


Figure 8: Source-Drain Diode Forward

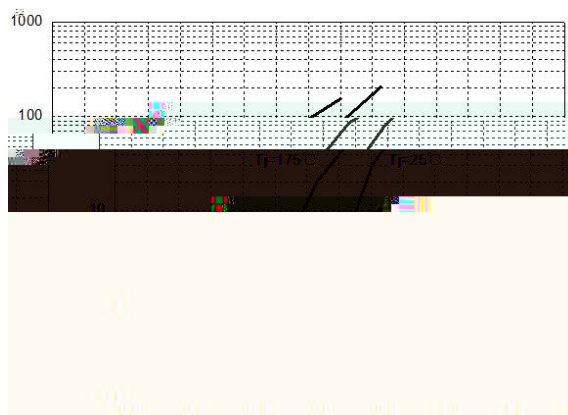


Figure 9: Capacitance Characteristics

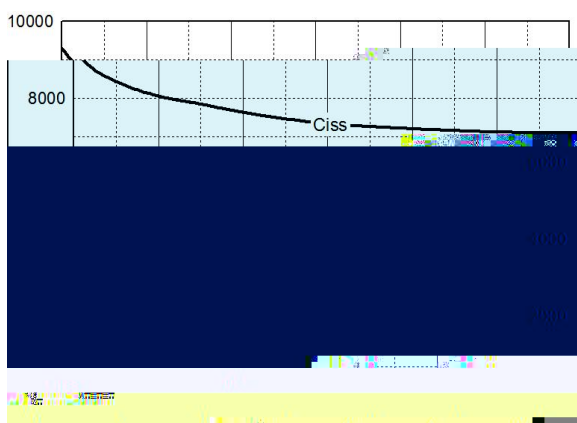
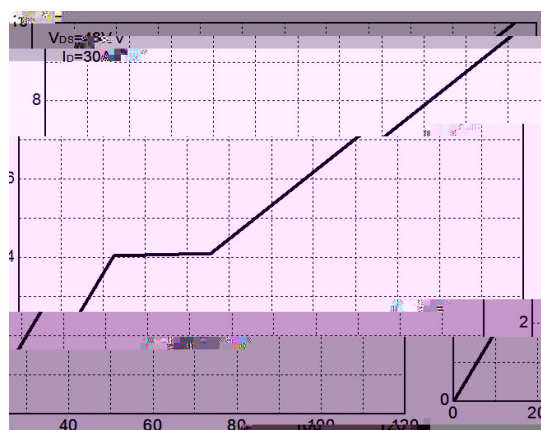
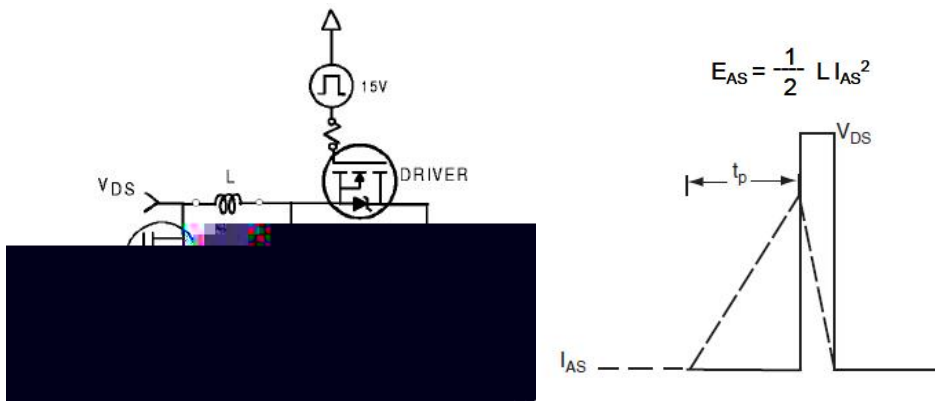


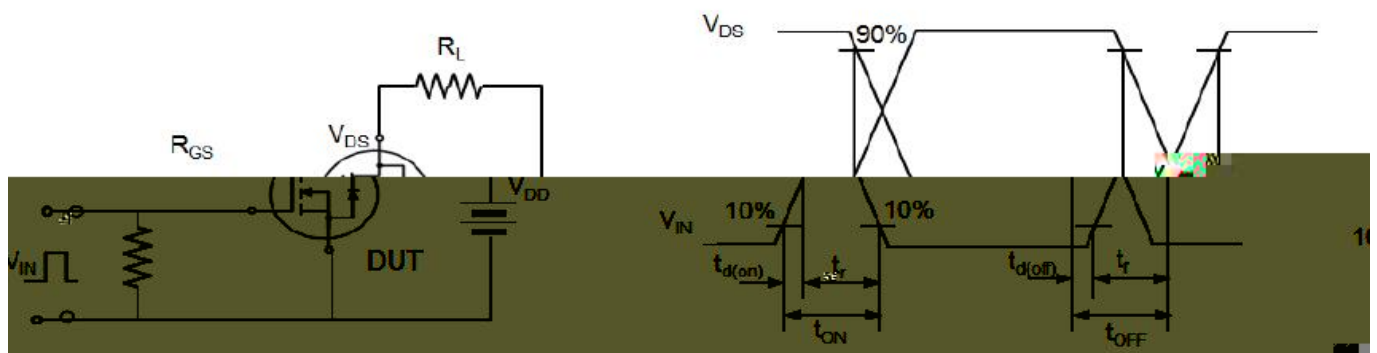
Figure 10: Gate Charge Characteristics



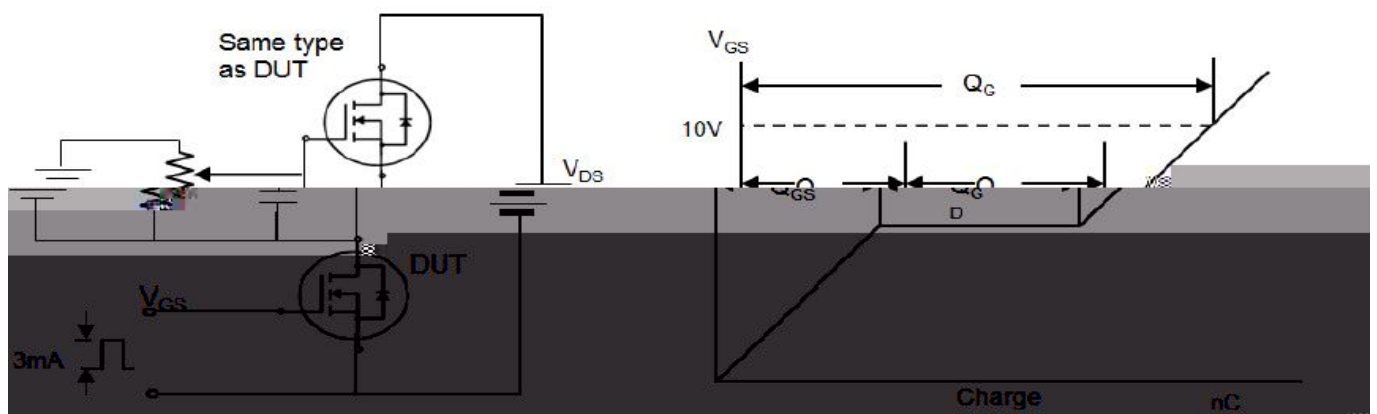
## Avalanche Test Circuit



## Switching Time Test Circuit



## Gate Charge Test Circuit











Package Thickness	Volume mm <350	Volume mm 350

Package Thickness	Volume mm <350	Volume mm 350-2000	Volume mm 2000

## Reliability Test Program

Test item	Method	Description

Customer Service

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