



## Feature

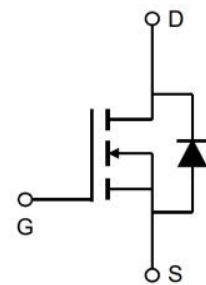
## Pin Description

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## Applications

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## Ordering and Marking Information

	
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## Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
<b>Common Ratings</b>			
		±	
<b>Mounted on Large Heat Sink</b>			

## Electrical Characteristics

Symbol	Parameter	Test Conditions	HYG025N06LS1			Unit
			Min	Typ.	Max	
<b>Static Characteristics</b>						
		±				mΩ
						mΩ
<b>Diode Characteristics</b>						

**HYG025N06LS1C2**

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## Typical Operating Characteristics

Figure 1: Power Dissipation

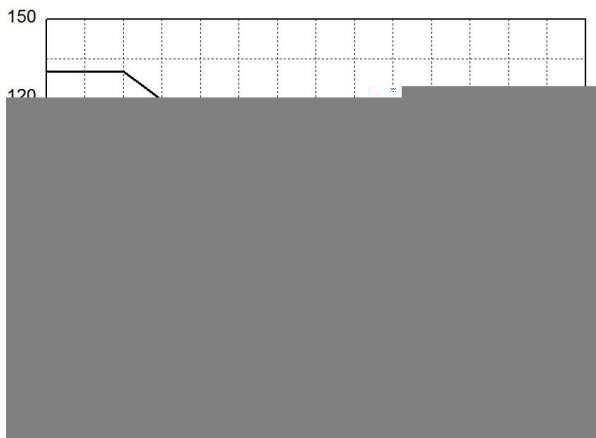


Figure 2: Drain Current

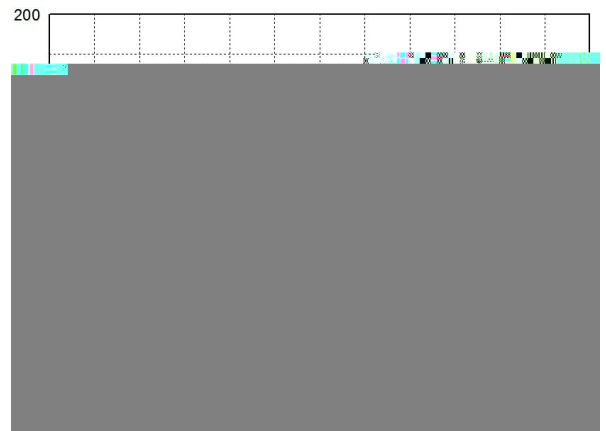


Figure 3: Safe Operation Area

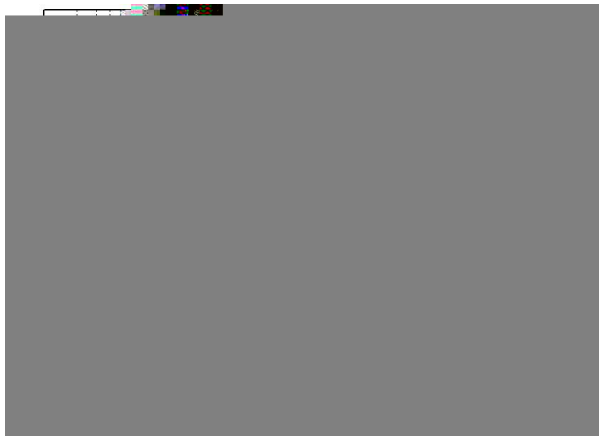


Figure 4: Thermal Transient Impedance

Maximum Effective Transient Thermal Impedance, Junction-to-Case

Figure 5: Output Characteristics

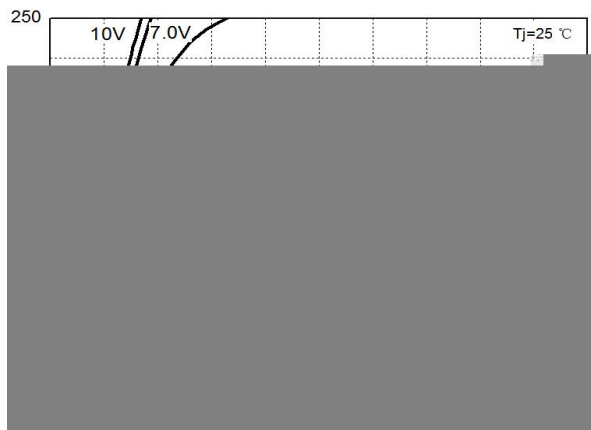
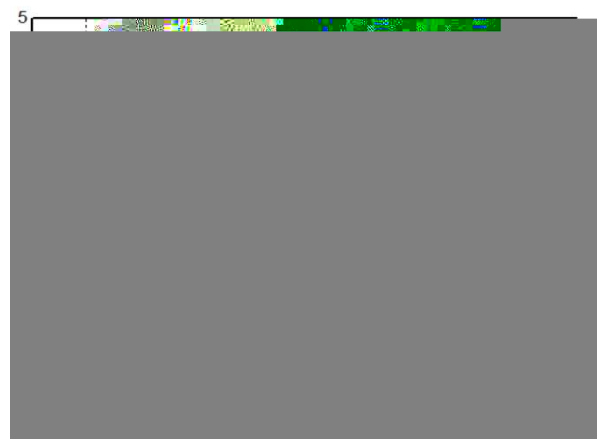


Figure 6: Drain-Source On Resistance



## Typical Operating Characteristics(Cont.)

Figure 7: On-Resistance vs. Temperature



Figure 8: Source-Drain Diode Forward

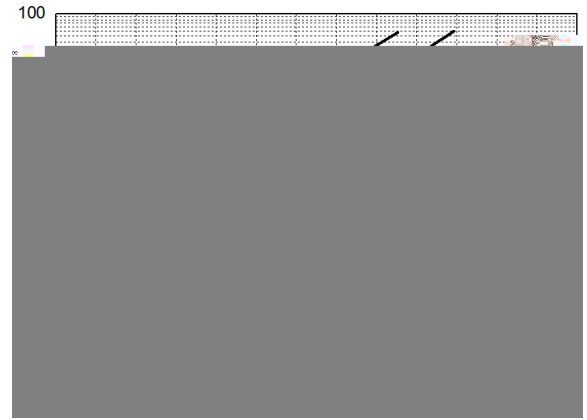
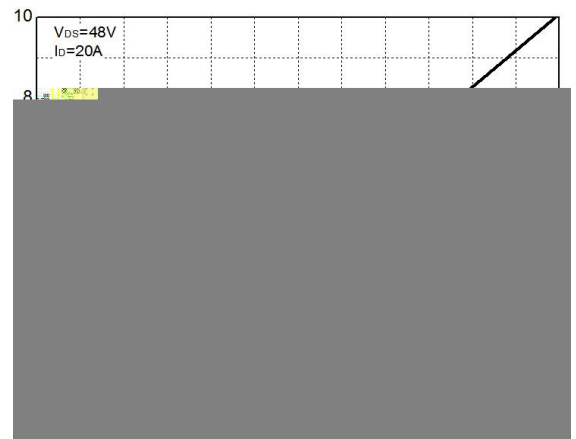


Figure 9: Capacitance Characteristics

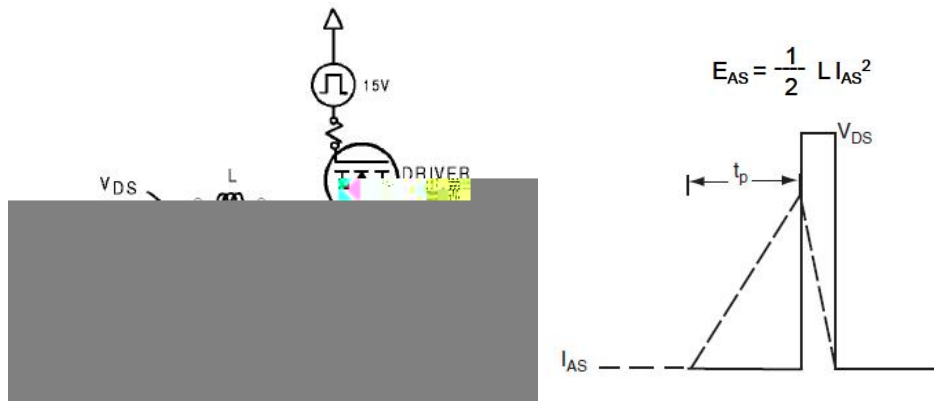


Figure 10: Gate Charge Characteristics

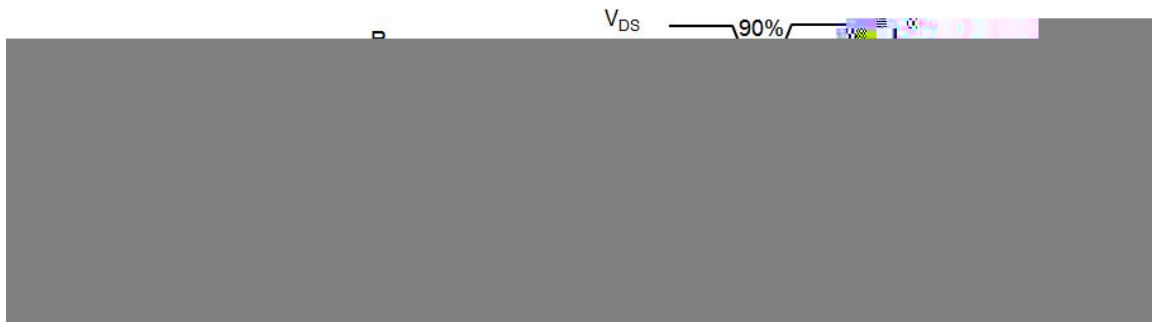


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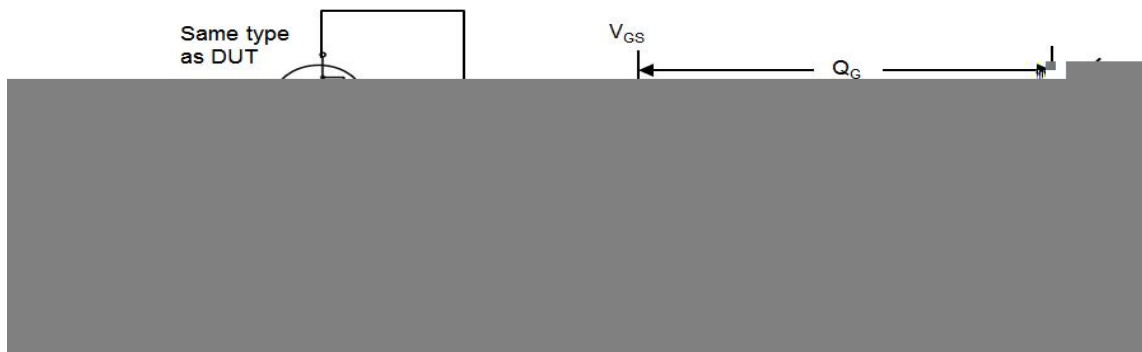
## Avalanche Test Circuit and Waveforms



## Switching Time Test Circuit and Waveforms



## Gate Charge Test Circuit and Waveforms



**HYG025N06LS1C2**





Package Thickness	Volume mm <sup>3</sup> <350	Volume mm <sup>3</sup> 350

Package Thickness	Volume mm <sup>3</sup> <350	Volume mm <sup>3</sup> 350-2000	Volume mm <sup>3</sup> 2000

## Reliability Test Program

Test item	Method	Description

Customer Service