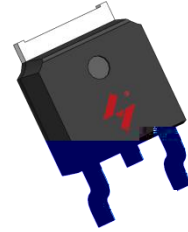


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## Feature

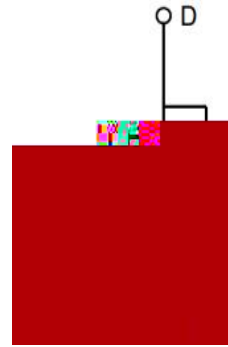
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## Pin Description




## Applications

- 



## Ordering and Marking Information

	
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HYG023 04 S1D



Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
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Common Ratings

Mounted on Large Heat Sink

## Electrical Characteristics (Cont.)

Symbol	Parameter	Test Conditions	HYG023N04LS1			Unit
			Min	Typ.	Max	
<b>Dynamic Characteristics</b>						
<b>Gate Charge Characteristics</b>						

## Typical Operating Characteristics

Figure 1: Power Dissipation

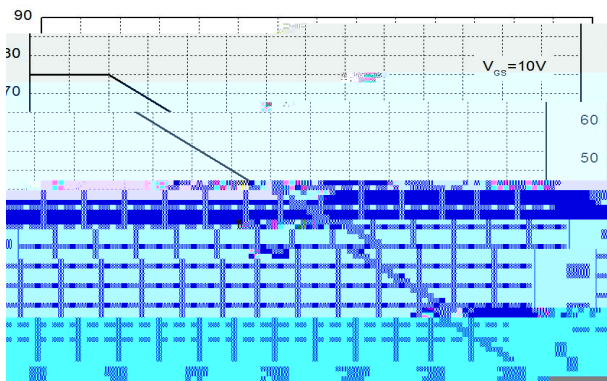


Figure 2: Drain Current

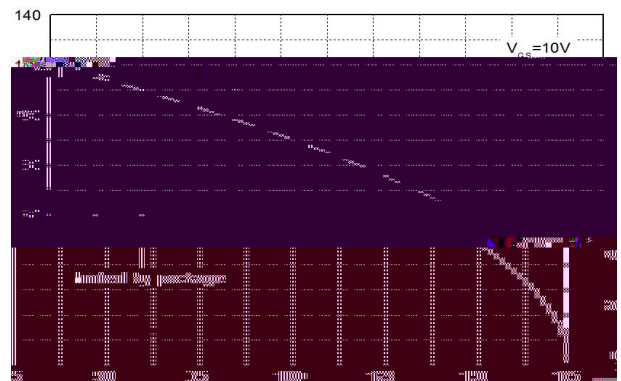


Figure 3: Safe Operation Area



Figure 4: Thermal Transient Impedance

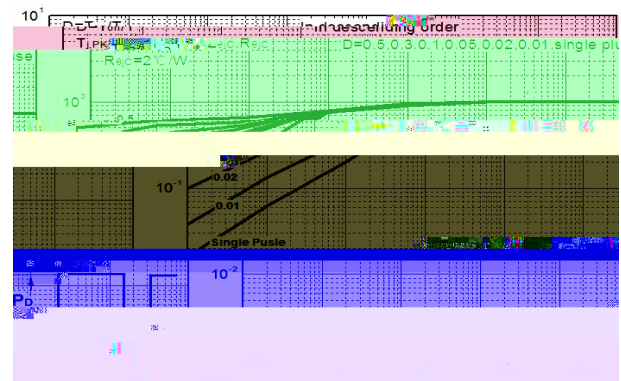


Figure 5: Output Characteristics

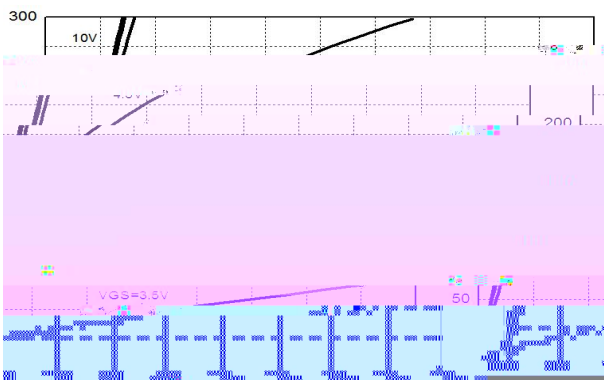
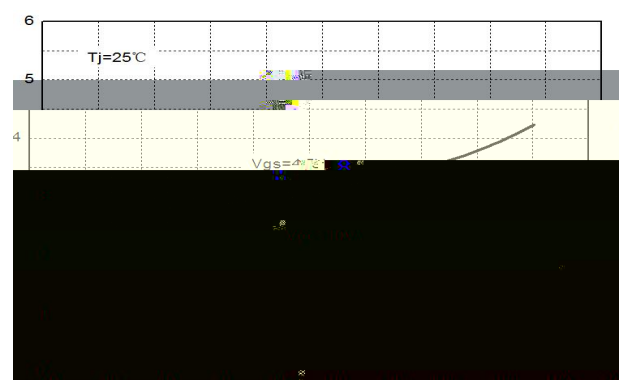
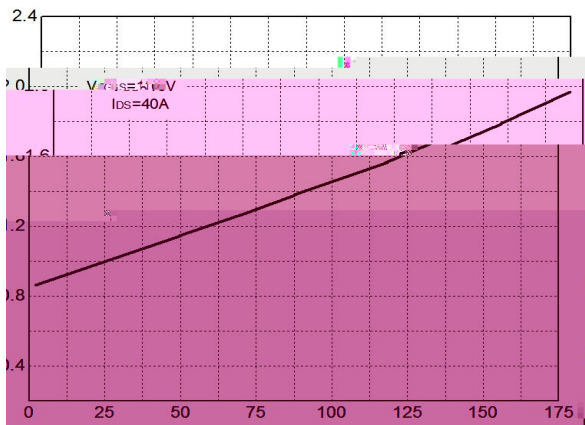


Figure 6: Drain-Source On Resistance

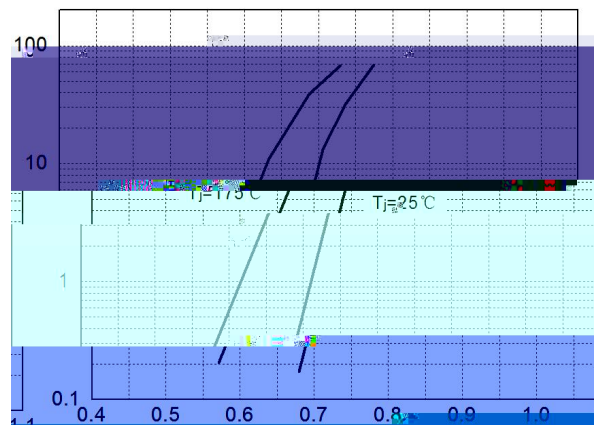


## Typical Operating Characteristics(Cont.)

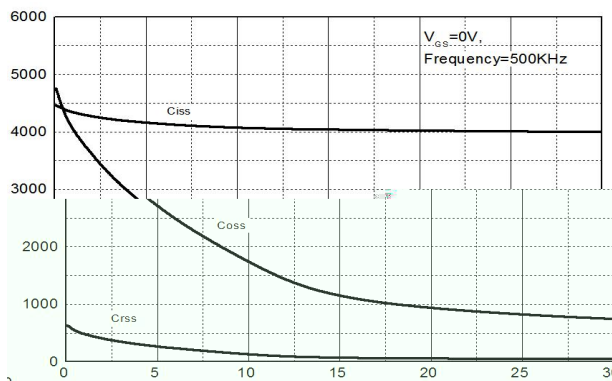
**Figure 7: On-Resistance vs. Temperature**



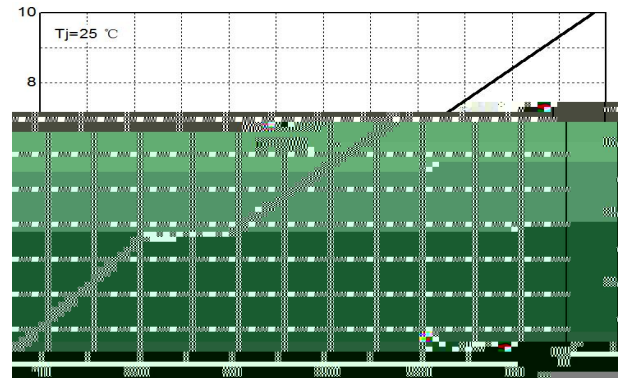
**Figure 8: Source-Drain Diode Forward**



**Figure 9: Capacitance Characteristics**

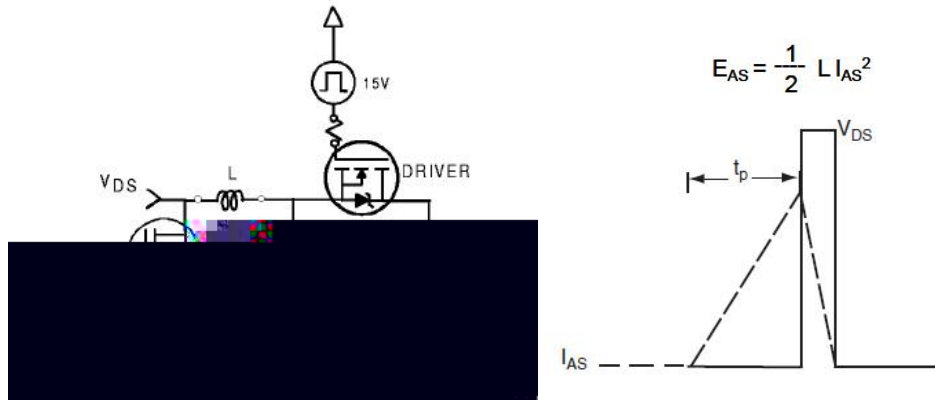


**Figure 10: Gate Charge Characteristics**

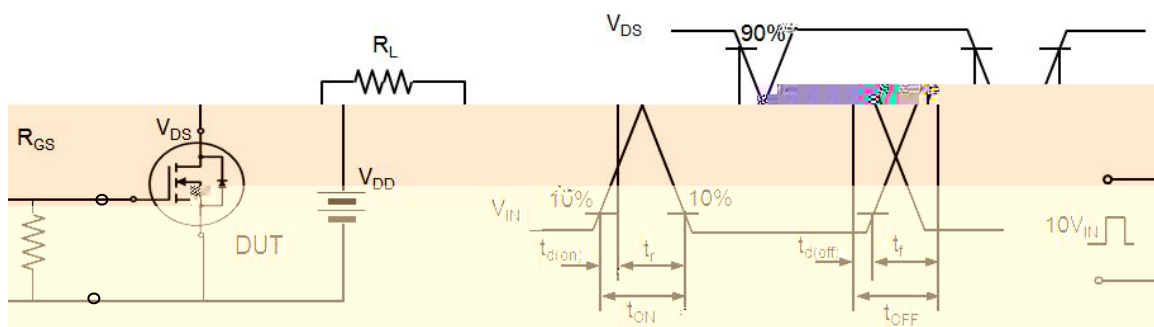


C

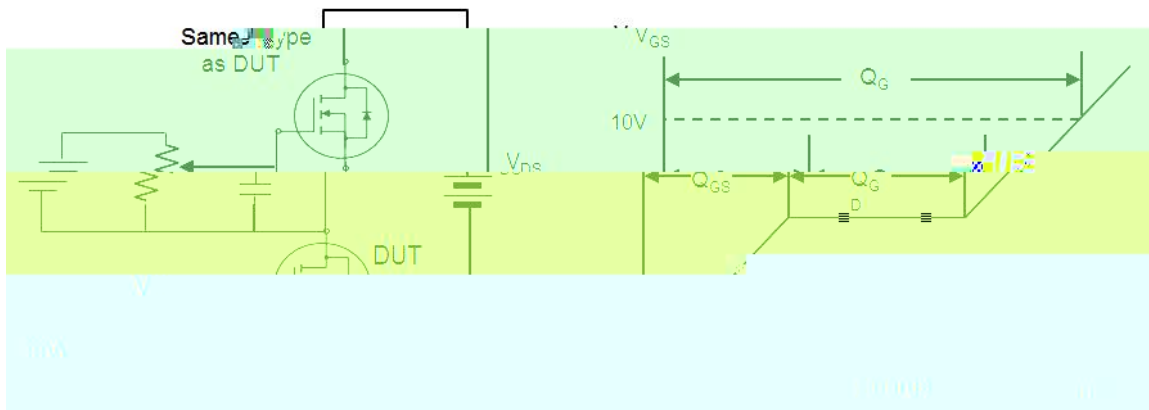
## Avalanche Test Circuit



**Switching Time Test Circuit**



**Gate Charge Test Circuit**









# HYG023N04LS1D



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