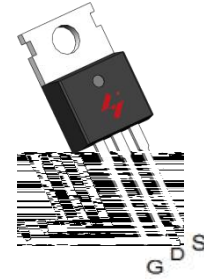




Feature

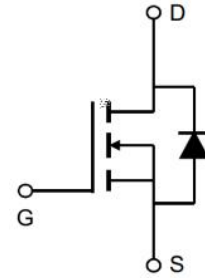
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Pin Description




Applications

-
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Ordering and Marking Information

	
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Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
Common Ratings			
Mounted on Large Heat Sink			
θ			
θ			

Electrical Characteristics

Symbol	Parameter	Test Conditions	HYG050N10NS1			Unit
			Min	Typ.	Max	
Static Characteristics						
Diode Characteristics						

HYG050N10NS1P



Electrical Characteristics (Cont.)

Symbol	Parameter	Test Conditions	HYG050N10NS1			Unit
			Min	Typ.	Max	
Dynamic Characteristics						
Gate Charge Characteristics						

Typical Operating Characteristics

Figure 1: Power Dissipation

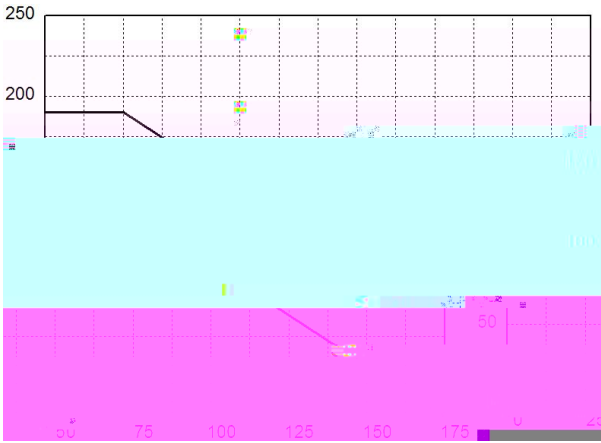


Figure 2: Drain Current

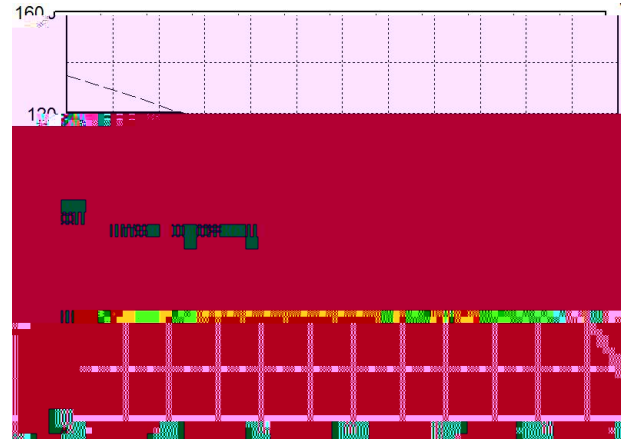


Figure 3: Safe Operation Area

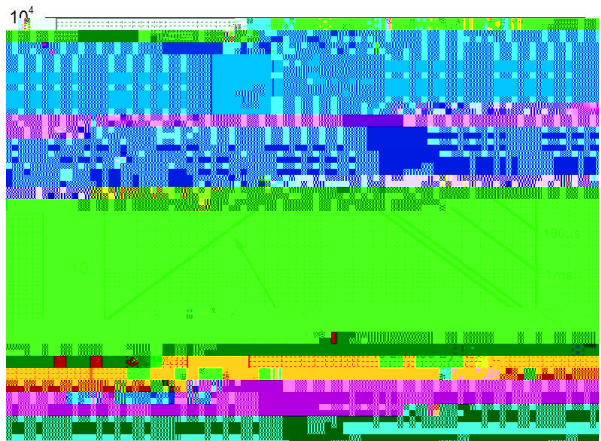


Figure 4: Thermal Transient Impedance

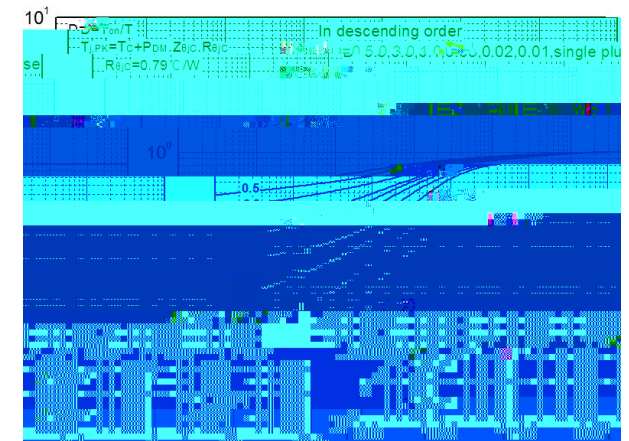


Figure 5: Output Characteristics

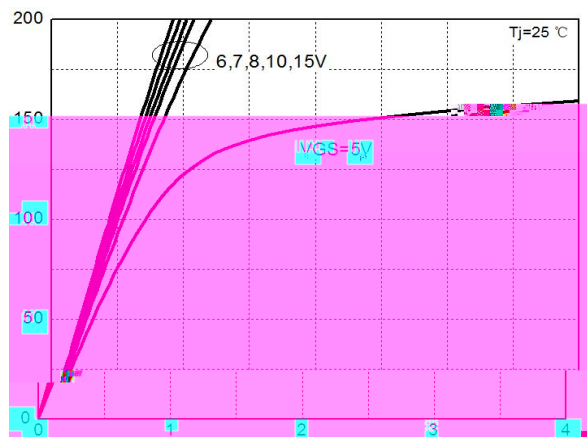
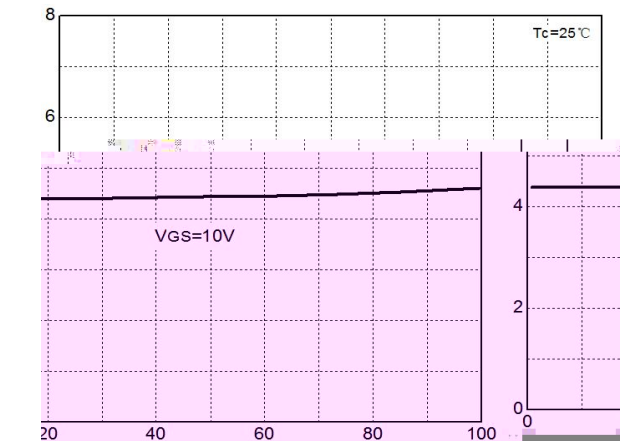


Figure 6: Drain-Source On Resistance



Typical Operating Characteristics(Cont.)

Figure 7: On-Resistance vs. Temperature

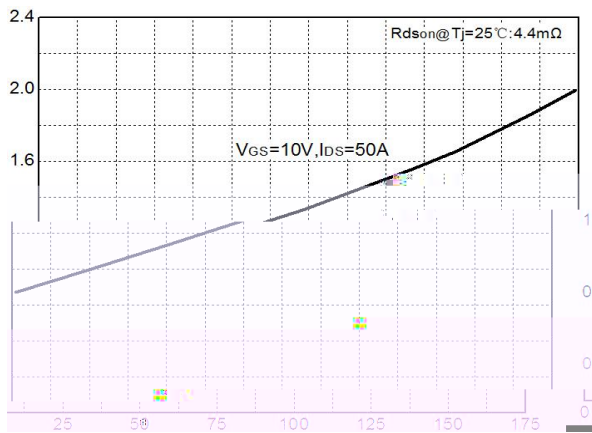


Figure 8: Source-Drain Diode Forward

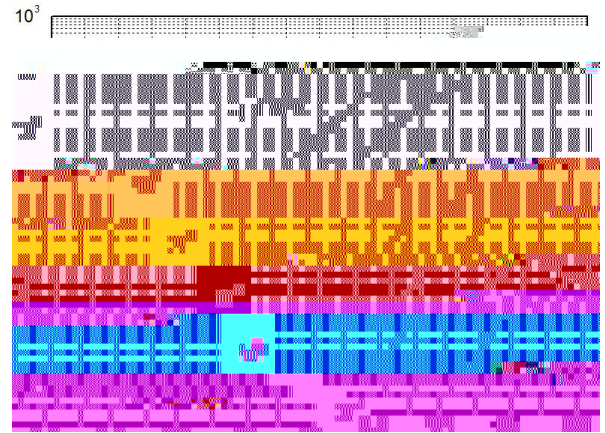


Figure 9: Capacitance Characteristics

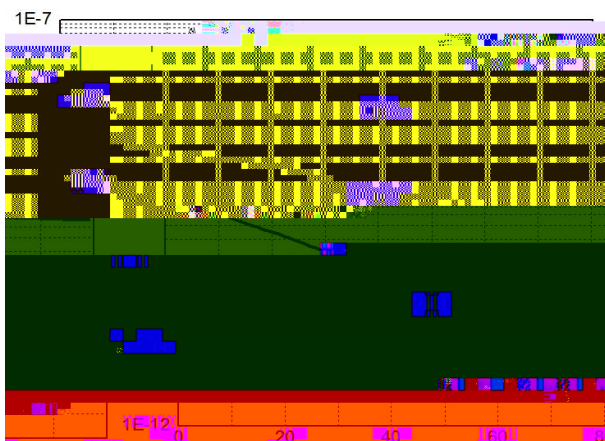
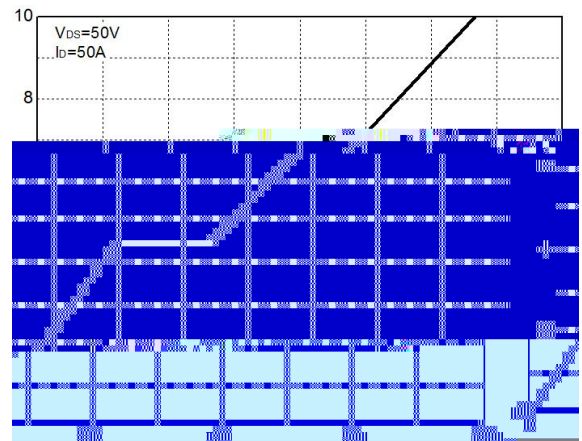
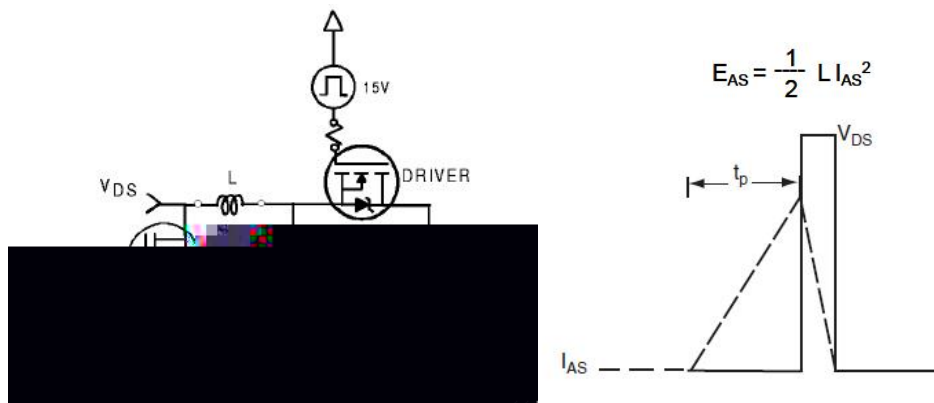


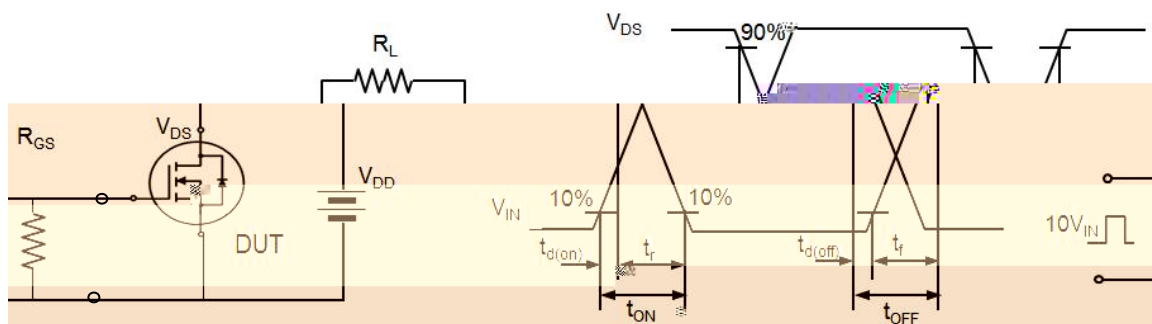
Figure 10: Gate Charge Characteristics



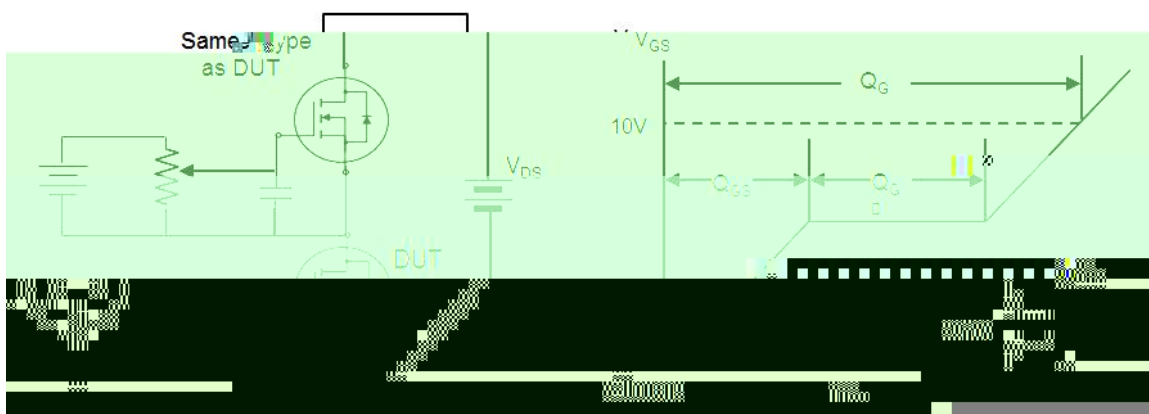
Avalanche Test Circuit



Switching Time Test Circuit



Gate Charge Test Circuit



Package
Thickness

Volume m- p