



Feature

Pin Description

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Applications

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Ordering and Marking Information

Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
Common Ratings			

Electrical Characteristics (Cont.)

Symbol	Parameter	Test Conditions	HYG023N04LQ1			Unit
			Min	Typ.	Max	
Dynamic Characteristics						
Gate Charge Characteristics						

Typical Operating Characteristics

Figure 1: Power Dissipation



Figure 2: Drain Current

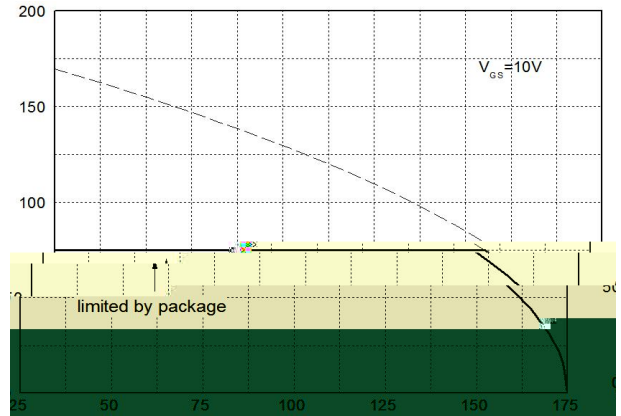


Figure 3: Safe Operation Area

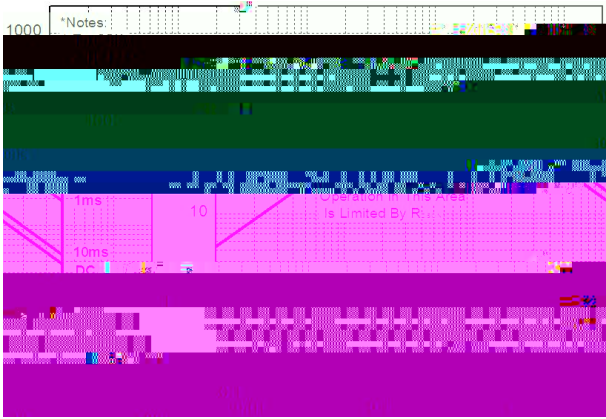
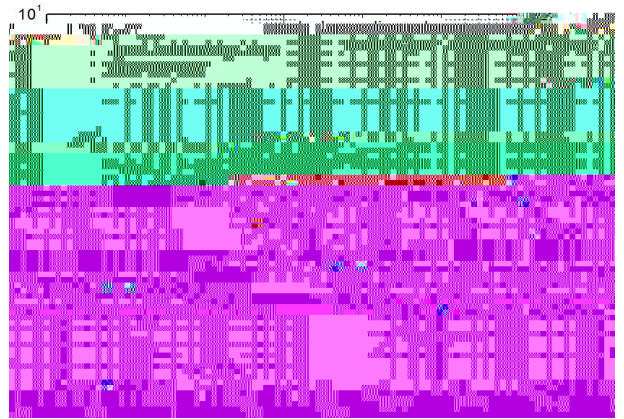


Figure 4: Thermal Transient Impedance



Maximum Effective Transient Thermal Impedance Junction to Case

Figure 5: Output Characteristics

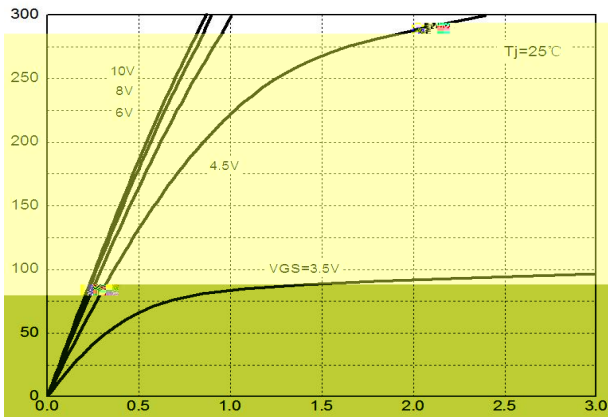
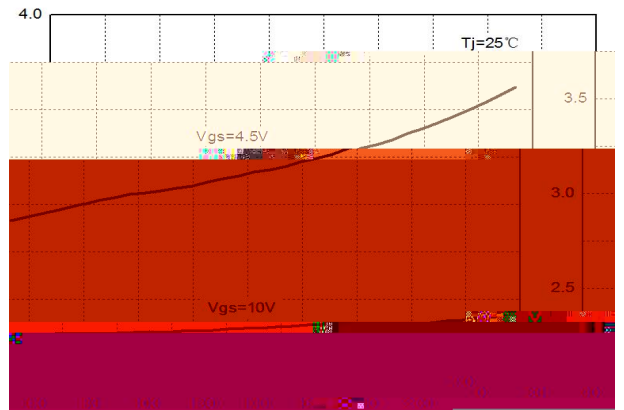


Figure 6: Drain-Source On Resistance



Typical Operating Characteristics(Cont.)

Figure 7: On-Resistance vs. Temperature



Figure 8: Source-Drain Diode Forward

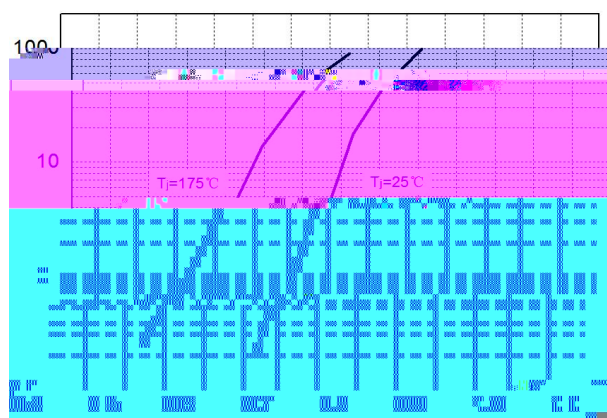


Figure 9: Capacitance Characteristics

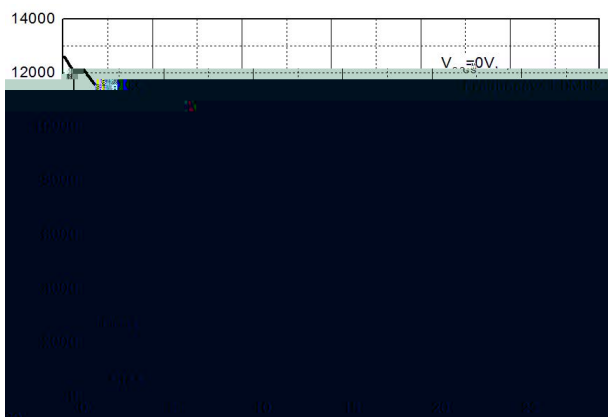
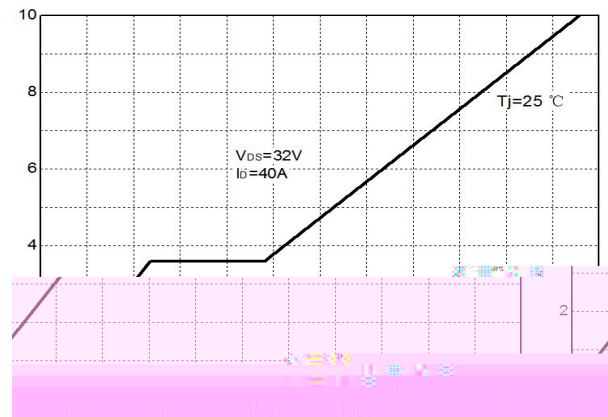
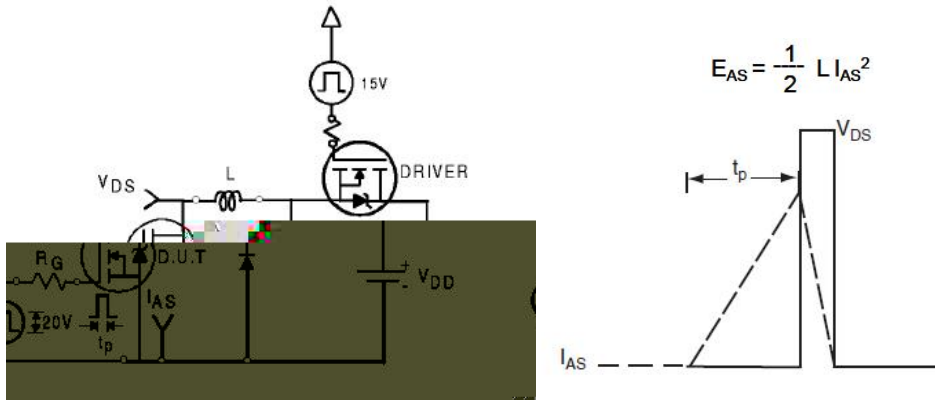


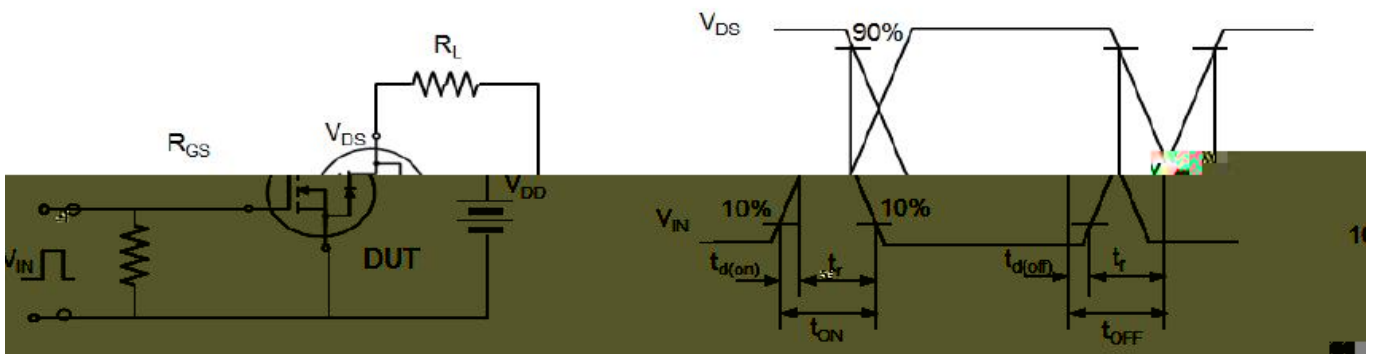
Figure 10: Gate Charge Characteristics



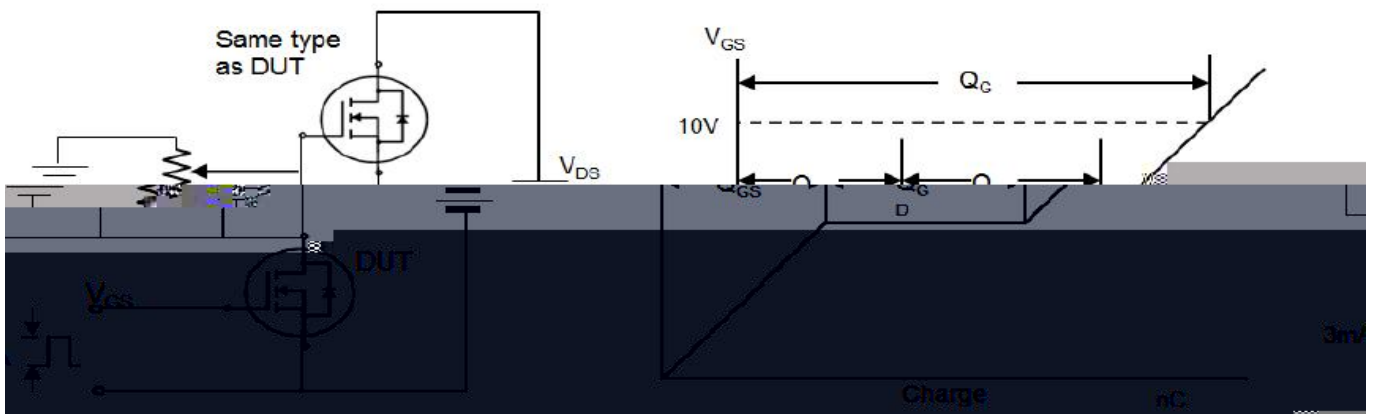
Avalanche Test Circuit



Switching Time Test Circuit



Gate Charge Test Circuit



Device Per Unit

Package Type	Unit	Quantity

Package Information

TO-220FB-3L
