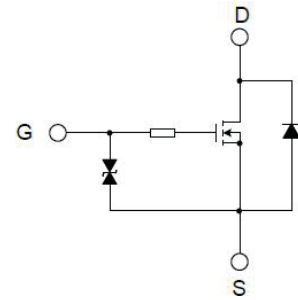
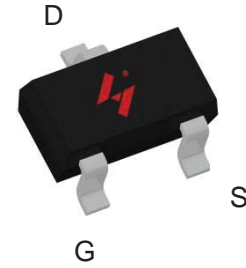




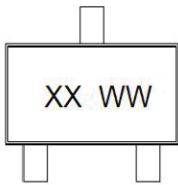
Feature

z

Pin Description



Ordering and Marking Information

	
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Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
Common Ratings			
Mounted on Large Heat Sink			

Electrical Characteristics

Symbol	Parameter	Test Conditions	HY2N7002			Unit
			Min	Typ	Max	
Static Characteristics						
Diode Characteristics						

Electrical Characteristics (Cont.)

Symbol	Parameter	Test Conditions	HY2N7002			Unit
			Min	Typ	Max	
Dynamic Characteristics						
	Turn-on Delay Time					
	Turn-on Rise Time					
	Turn-off Delay Time					
	Turn-off Fall Time					
Gate Charge Characteristics						

Typical Operating Characteristics

Figure 1: Power Dissipation

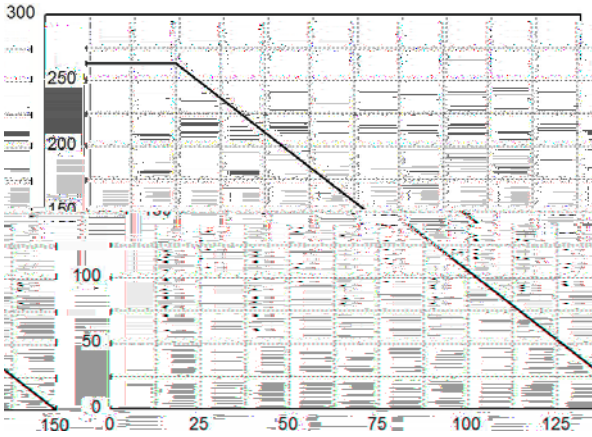


Figure 2: Drain Current

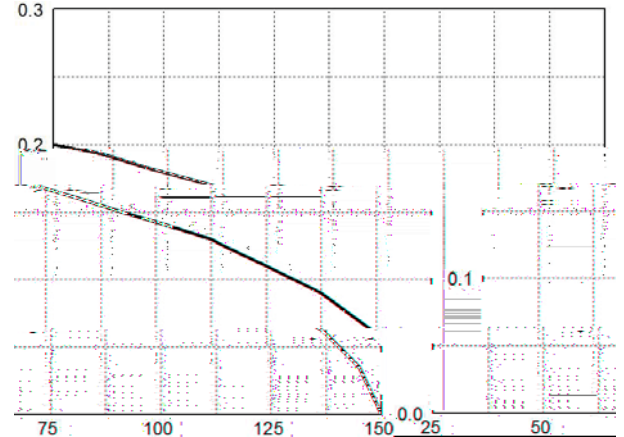


Figure 3: Safe Operation Area

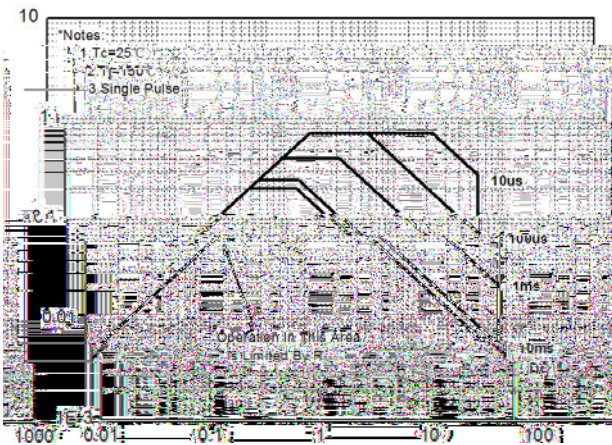


Figure 4: Thermal Transient Impedance

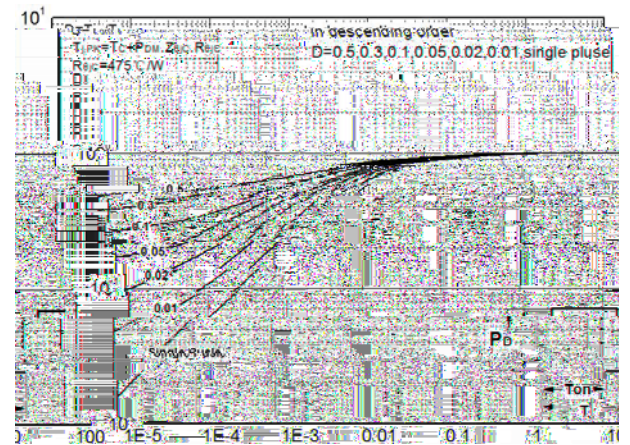


Figure 5: Output Characteristics

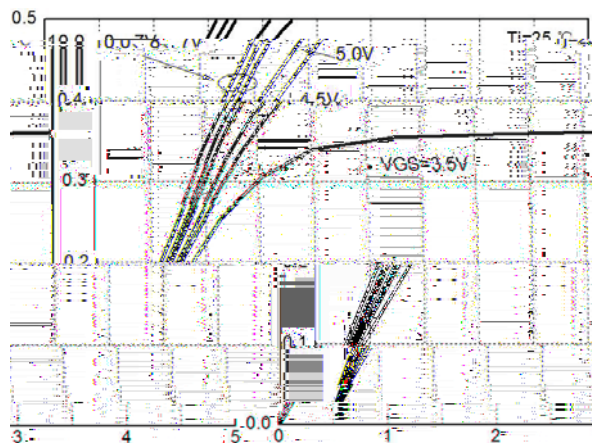
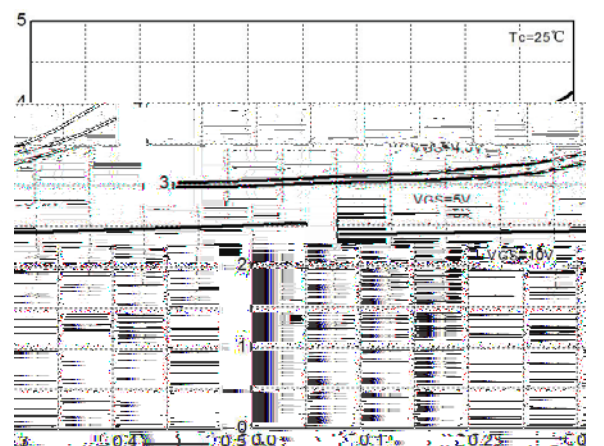


Figure 6: Drain-Source On Resistance



Maximum Effective Transient Thermal Impedance, Junction-to-Case

Typical Operating Characteristics(Cont.)

Figure 7: On-Resistance vs. Temperature

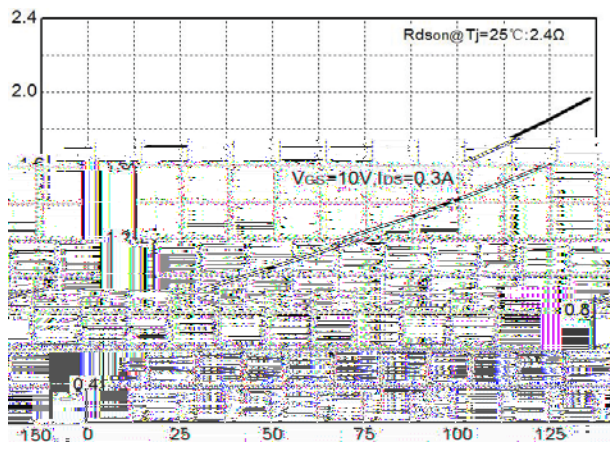


Figure 8: Source-Drain Diode Forward

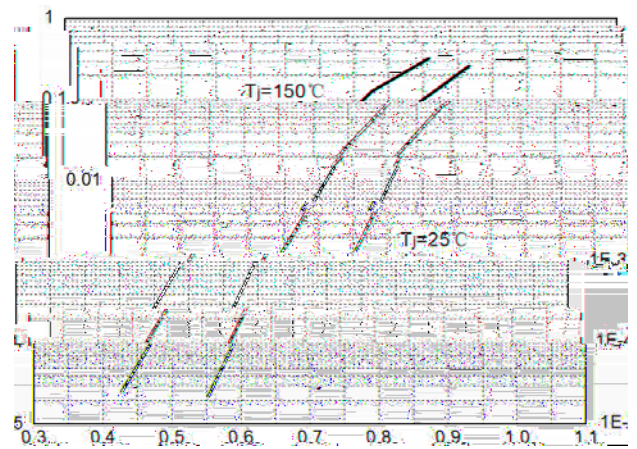


Figure 9: Capacitance Characteristics

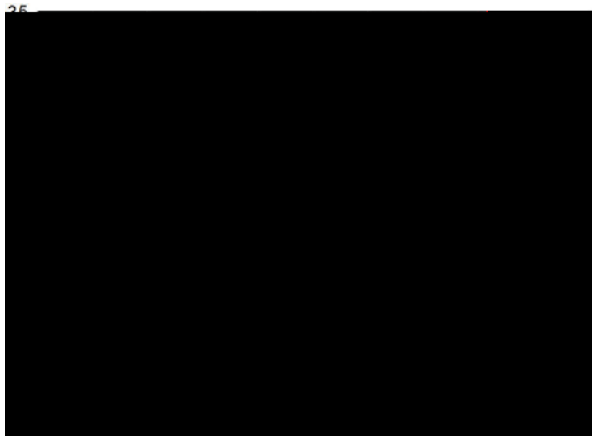
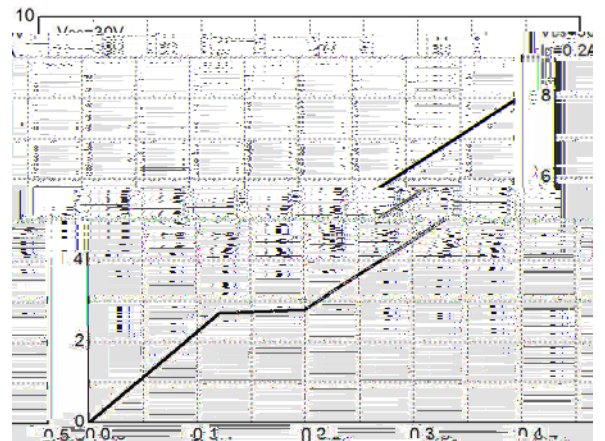
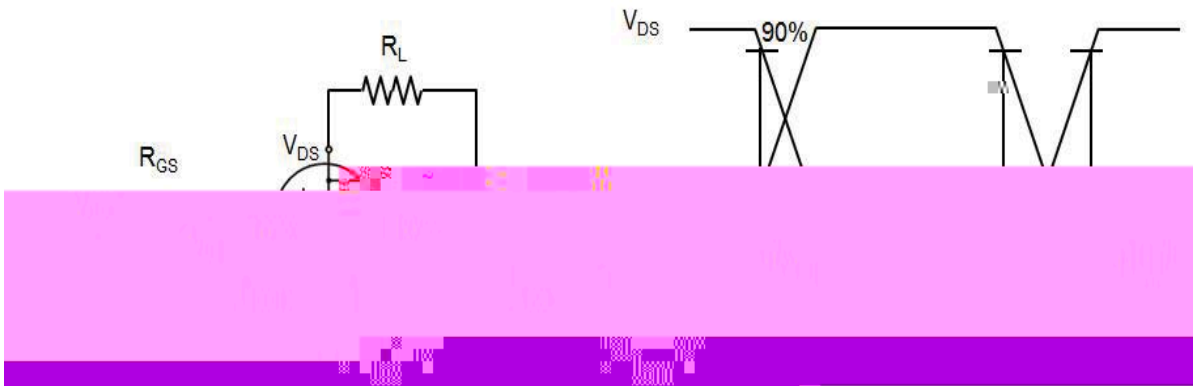


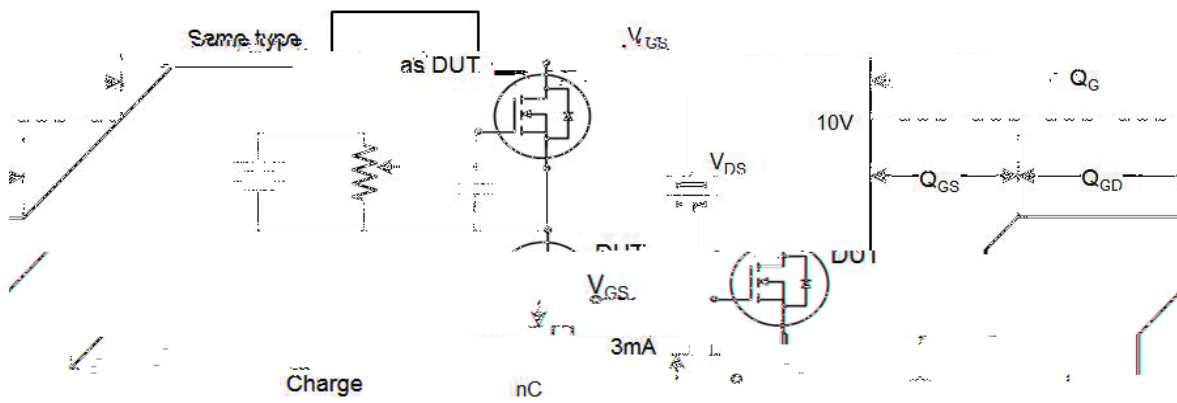
Figure 10: Gate Charge Characteristics



Switching Time Test Circuit



Gate Charge Test Circuit

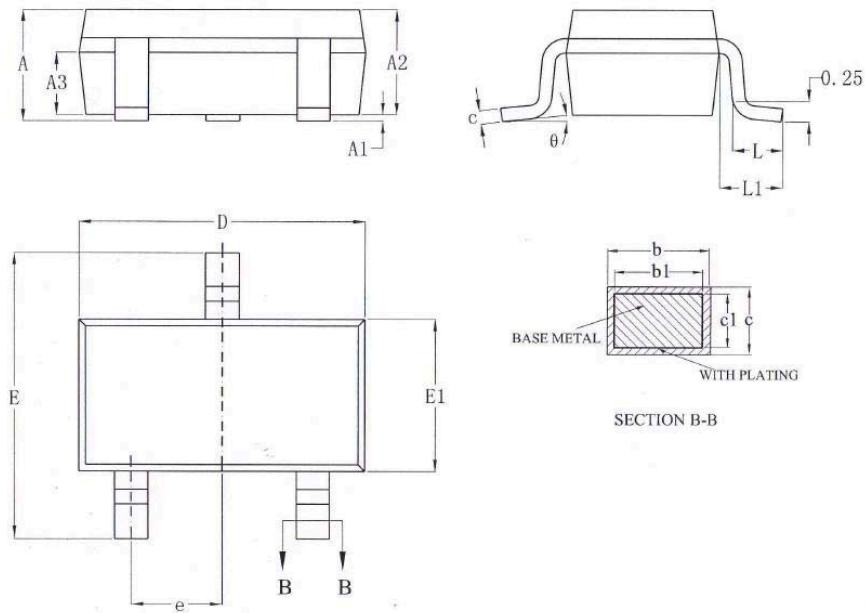


Device Per Unit

Package Type	Unit	Quantity

Package Information

SOT-23-3L



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	---	---	1.25
A1	0.04	---	0.10
A2	1.00	1.10	1.20
A3	0.60	0.65	0.70
b	0.33	---	0.41
b1	0.32	0.35	0.38
c	0.15	---	0.19
c1	0.14	0.15	0.16
D	2.82	2.92	3.02
E	2.60	2.80	3.00
E1	1.50	1.60	1.70
e	0.95BSC		
L	0.30	---	0.60
L1	0.60REF		
	0	---	80

Package Thickness	Volume mmâ <350	Volume mmâ 1 350

Package Thickness	Volume mmâ <350	Volume mmâ 350-2000	Volume mmâ 1 2000

Reliability Test Program

Test item

Method

Description