





YJG15G15A

■ Electrical Characteristics (T_J=25 unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Static Parameter						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} = 0V, I _D =250μA	150	-	-	V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =150V, V _{GS} =0V	-	-	1	μA
		V _{DS} =150V, V _{GS} =0V, T _j =150	-	-	100	
Gate-Body Leakage Current	I _{GSS}	V _{GS} = ±20V, V _{DS} =0V	-	-	±100	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} = V _{GS} , I _D =250μA	2	3	4	V
Static Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =10V, I _D =15A	-	52	70	mΩ
		V _{GS} =6V, I _D =10A	-	57	80	
Diode Forward Voltage	V _{SD}	I _S =15A, V _{GS} =0V	-	0.95	1.2	V
Gate resistance	R _G	f=1MHz	-	1	-	Ω
Maximum Body-Diode Continuous Current	I _S		-	-	15	A
Dynamic Parameters						
Input Capacitance	C _{iss}	V _{DS} =75V, V _{GS} =0V, f=1MHz	-	740	-	pF
Output Capacitance	C _{oss}		-	65	-	
Reverse Transfer Capacitance	C _{rss}		-	5	-	
Switching Parameters						
Total Gate Charge	Q _g	V _{GS} =10V, V _{DS} =75V, I _D =15A	-	13	-	nC
Gate-Source Charge	Q _{gs}		-	3	-	
Gate-Drain Charge	Q _{gd}		-	4	-	
Reverse Recovery Charge	Q _{rr}	I _F =15A, di/dt=100A/us	-	122	-	nC
Reverse Recovery Time	t _{rr}		-	62	-	ns
Turn-on Delay Time	t _{D(on)}		-	2	-	
Turn-on Rise Time	t _r	V _{GS} =10V, V _{DD} =75V, I _D =15A R _{GEN} =2.2Ω	-			ns



YJG15G15A

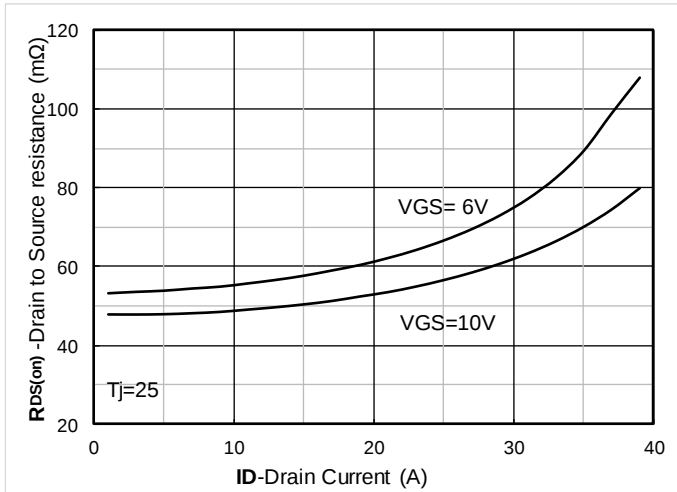
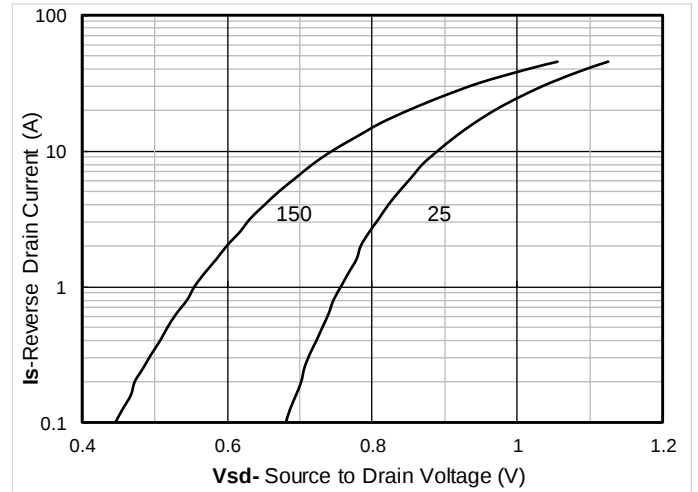


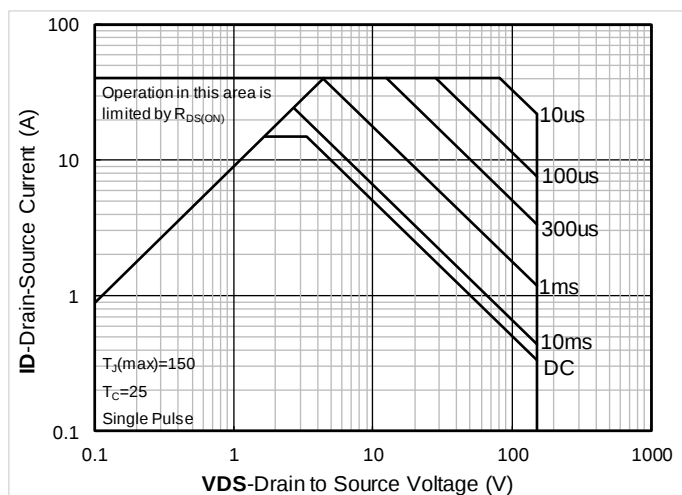
Figure 7. $R_{DS(on)}$



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YJG15G15A





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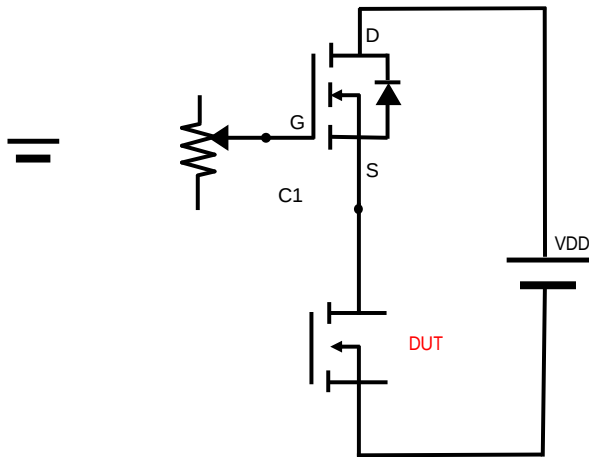


Figure B. Gate Charge Test Circuit & Waveform

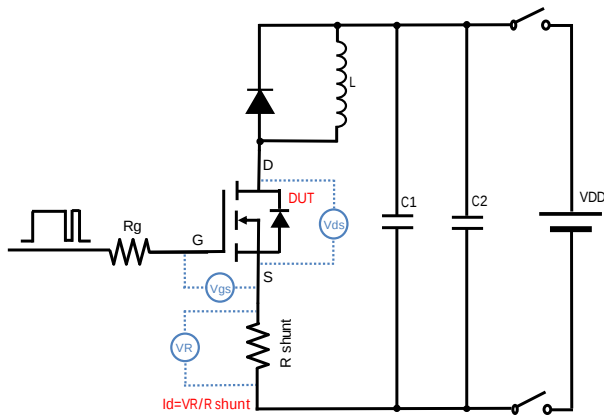


Figure C. Resistive Switching Test Circuit & Waveform

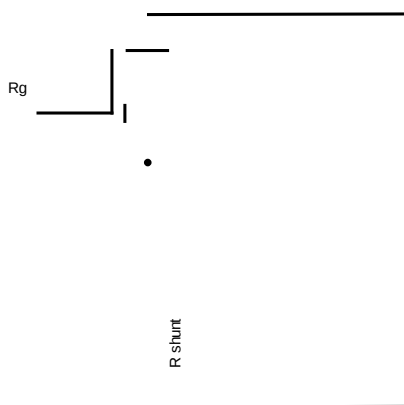


Figure D. Diode Recovery Test Circuit & Waveform

YJG15G15A



YJG15G15A

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