■ Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Static Parameter						
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V,I_D=250μA,Tj=25	800	-	-	V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=800V,V_{GS}=0V,Tj=25	-	-	1	μA
		V_{DS}=800V,V_{GS}=0V,Tj=125	-	-	100	
Gate-Source Leakage Current	I_{GSS}	V_{GS}=±20V,V_{DS}=0V,Tj=25	-	-	±10	μA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS},I_D=250μA,Tj=25	3	3.8	4.6	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	V_{GS}=10V,I_D=12A,Tj=25	-	153	190	mΩ
		V_{GS}=10V,I_D=12A,Tj=150	-	405	503	mΩ
Diode Forward Voltage	V_{SD}	I_S=22A,V_{GS}=0V,Tj=25	-	0.86	1.2	V
Gate Resistance	R_G	f=1MHz,Tj=25	-	4	-	Ω
Dynamic Parameters						
Input Capacitance	C_{iss}	V_{DS}=400V,V_{GS}=0V,f=1MHz,Tj=25	-	2944	-	pF
Output Capacitance	C_{oss}		-	44.3	-	
Reverse Transfer Capacitance	C_{rss}		-			

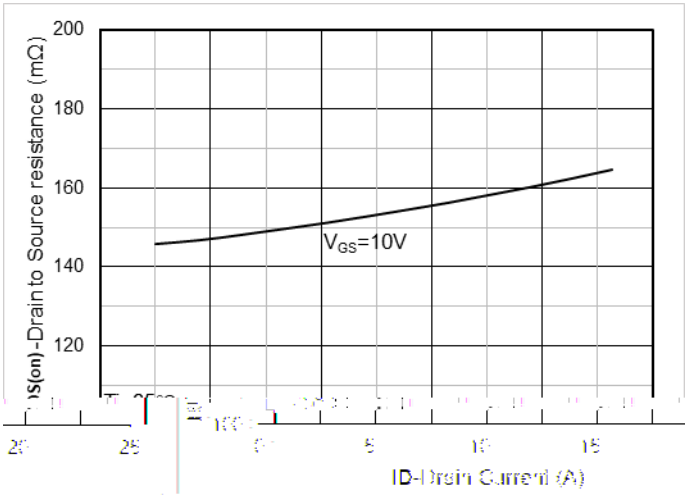


Figure 7. $R_{DS(on)}$ vs. Drain Current; typical values

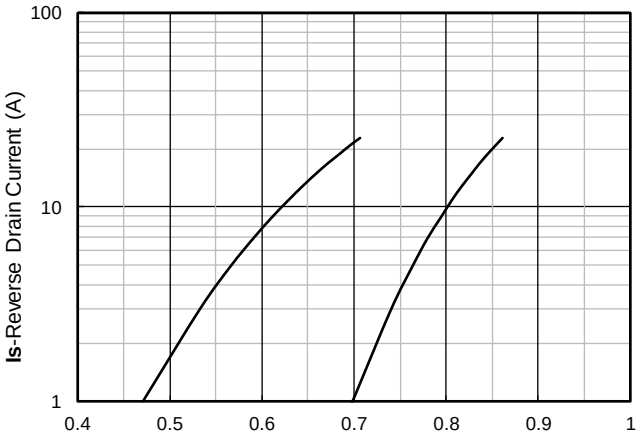


Figure 8. Forward characteristics of reverse diode; typical values

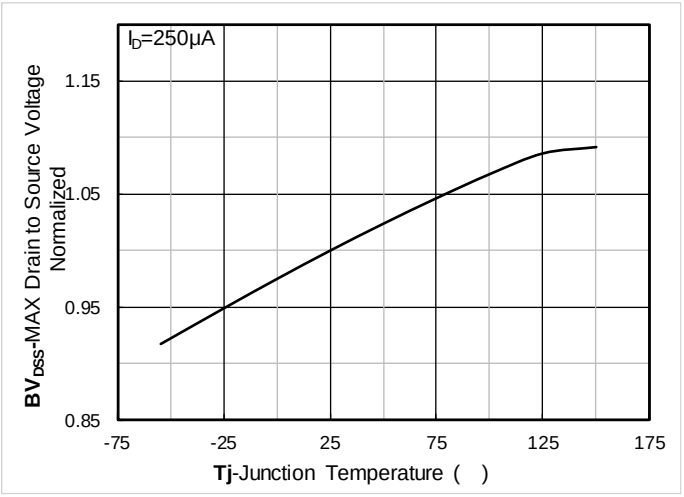


Figure 9. Normalized breakdown voltage

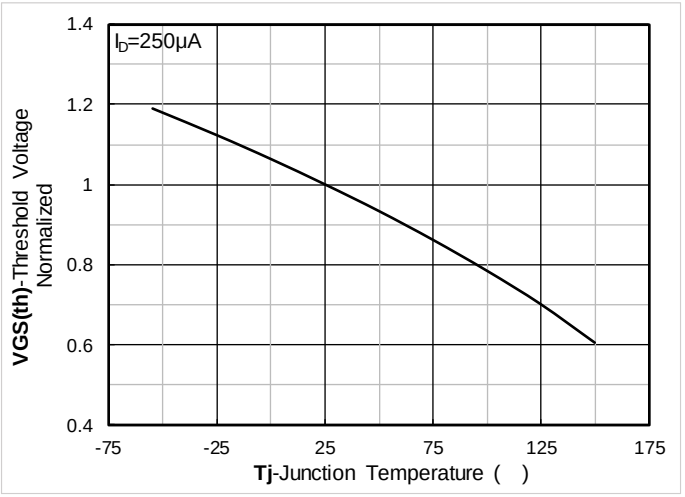


Figure 10. Normalized Threshold voltage

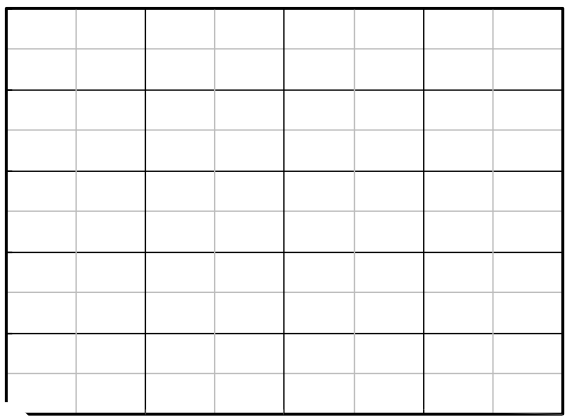


Figure 11. Current dissipation

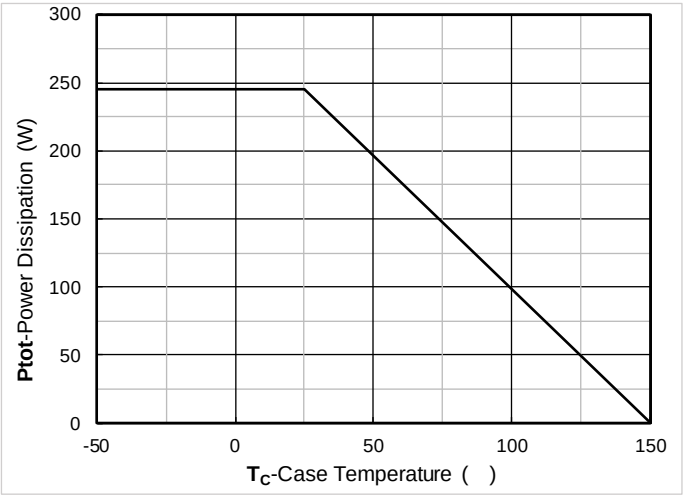


Figure 12. Power dissipation

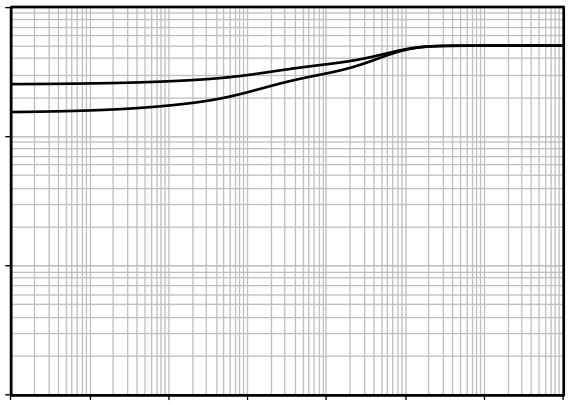


Figure 13. Maximum Transient Thermal Impedance

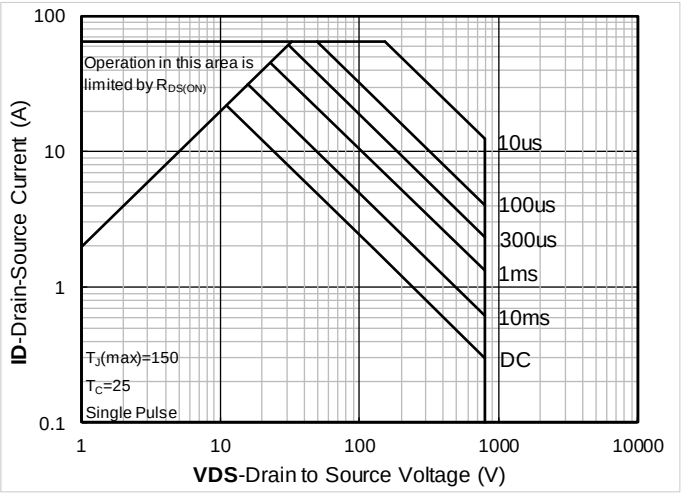


Figure 14. Safe Operation Area

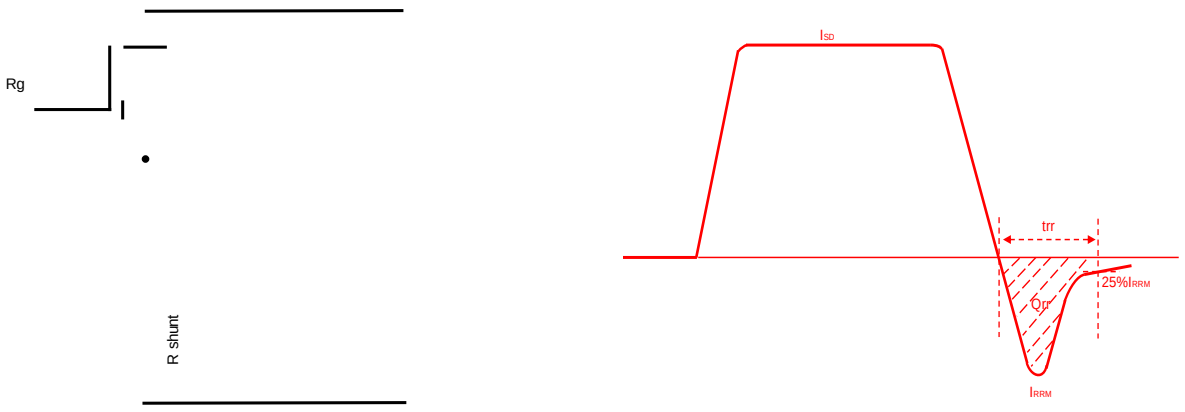
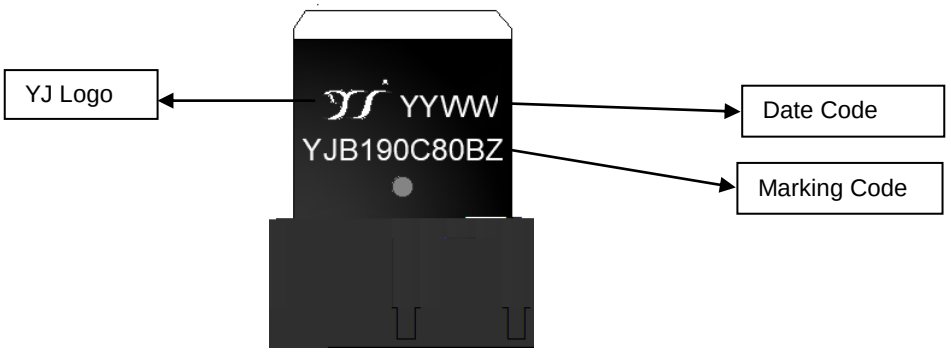


Figure D. Diode Recovery Test Circuit & Waveform

■ Marking Information



Note
1. All marking is at middle of the product body
2. All marking is in laser printing
3. YJB190C80BZ is marking code, YYWW is date code, “YY” is year, “WW” is week
4. Body color: Black

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.