	-20A
	-30V
	9.0mΩ
	15.0mΩ

The YFW20V03S uses advanced trench technology to provide excellent Ros(on),low gate charge and operation with gate voltages as low as -4.5V. This device is suitable for use as a Battery protection or in other Switching application.

- Battery protection
- Load switch
- Uninterruptible power supply

Drain-Source Voltage		-30
Gate - Source Voltage		± 20
Continuous Drain Current	T_A = 25°C	-20
	T_A = 100°C	-10
Pulsed Drain Current (1)		-60
Single Pulsed Avalanche Energy (2)		132
Power Dissipation	T_A = 25°C	

Drain-Source Breakdown Voltage	I_D = -250μA, V_{GS} = 0V	-30	-	-
Zero Gate Voltage Drain Current	V_{DS} = -30V, V_{GS} = 0V	-	-	1.0
Gate-Body Leakage Current	V_{DS} = 0V, V_{GS} = ±20V	-	-	±100
Gate Threshold Voltage	V_{DS} = V_{GS}, I_D = -250μA	-1.0	-1.5	-2.5
Static Drain-Source ON-Resistance(4)	V_{GS} = -10V, I_D = -10A	-	7.2	9.0
	V_{GS} = -4.5V, I_D = -5A	-	12.0	15.0
Input Capacitance	V_{GS} = 0V V_{DS} = -15V f = 1MHz	-	3366	-
Output Capacitance		-	471	-
Reverse Transfer Capacitance		-	324	-
Total Gate Charge	V_{GS} = 0 to -10V V_{DS} = -15V I_D = -10A	-	59	-
Gate Source Charge		-	10	-
Gate Drain("Miller") Charge		-	14	-
Turn-On Delay Time	V_G			

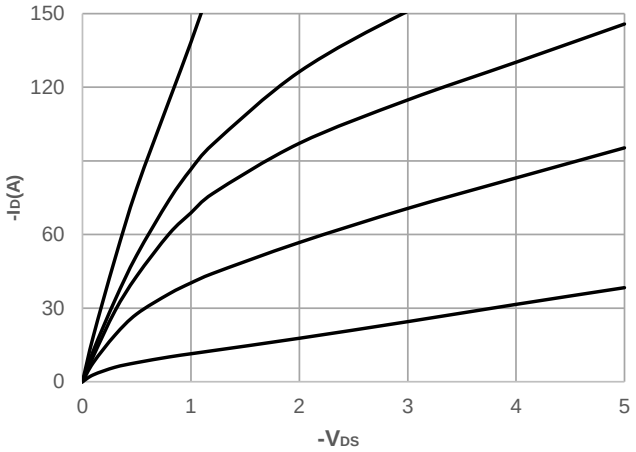
150
120
60
30
0
-ID(A)
0
1
2
3
4
5
-VDS

Figure 7: Normalized Breakdown voltage vs. Junction Temperature

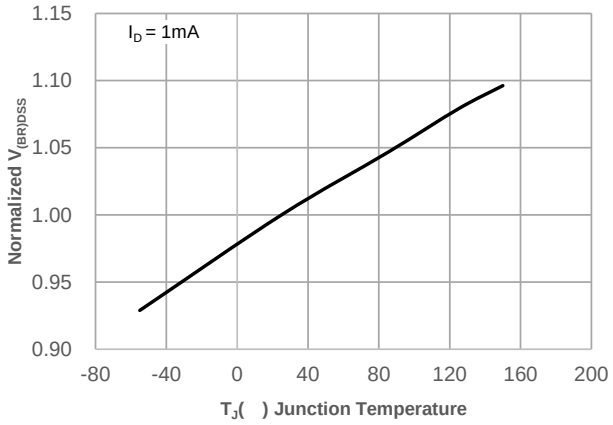

Figure 8: Normalized on Resistance vs. Junction Temperature

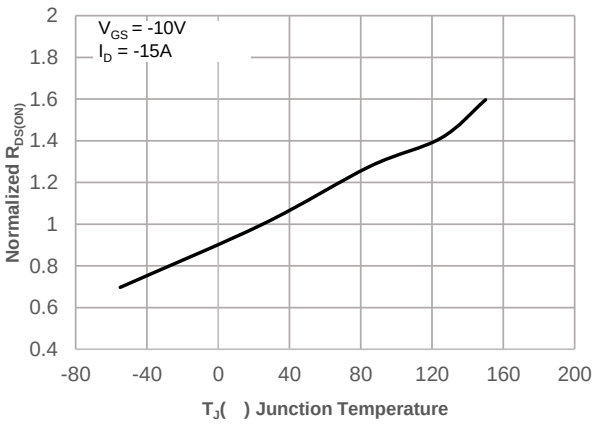

Figure 9: Maximum Safe Operating Area

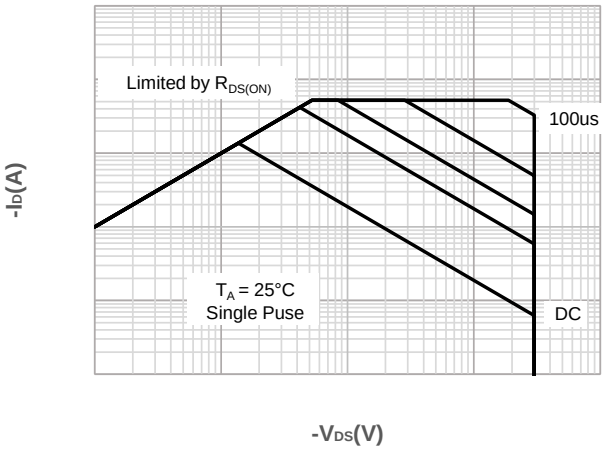

Figure 10: Maximum Continuous Drian Current vs. Ambient Temperature

