

## Main Specifications

(unless otherwise specified, @T<sub>c</sub>=25°C)

Part number		<a href="#">MG800FXF2YMS3</a>	
Package		iXPLV	
Absolute maximum ratings	Drain-source voltage V <sub>DSS</sub> (V)	3300	
	Gate-source voltage V <sub>GSS</sub> (V)	+25/-10	
	Drain current (DC) I <sub>D</sub> (A)	800	
	Drain current (pulsed) I <sub>DP</sub> (A)	1600	
	Channel temperature T <sub>ch</sub> (°C)	175	
	Isolation voltage V <sub>isol</sub> (Vrms)	6000	
Electrical characteristics	Drain-source voltage on-voltage (sense) V <sub>DS(on)sense</sub> typ. (V)	@V <sub>GS</sub> = +20V, I <sub>D</sub> =800A	1.6
	Source-drain voltage on-voltage (sense) V <sub>SD(on)sense</sub> typ. (V)	@V <sub>GS</sub> = +20V, I <sub>S</sub> =800A	1.5
	Source-drain voltage off-voltage (sense) V <sub>SD(off)sense</sub> typ. (V)	@V <sub>GS</sub> = -6V, I <sub>S</sub> =800A	2.3
	Stray inductance module L <sub>SPN</sub> typ. (nH)	12	
	Turn-on switching loss E <sub>on</sub> typ. (mJ)	@V <sub>DD</sub> =1800V, I <sub>D</sub> =800A, T <sub>ch</sub> =150°C	250
	Turn-off switching loss E <sub>off</sub> typ. (mJ)	@V <sub>DD</sub> =1800V, I <sub>D</sub> =800A, T <sub>ch</sub> =150°C	240