

Main Specifications

(unless otherwise specified, @T_c=25°C)

Part number		MG600Q2YMS3	MG400V2YMS3
Package		2-153A1A	
Absolute maximum ratings	Drain-source voltage V _{DSS} (V)	1200	1700
	Gate-source voltage V _{GSS} (V)	+25/-10	+25/-10
	Drain current (DC) I _D (A)	600	400
	Drain current (pulsed) I _{DP} (A)	1200	800
	Channel temperature T _{ch} (°C)	150	150
	Isolation voltage V _{isol} (Vrms)	4000	4000
Electrical characteristics	Drain-source on-voltage (sense) V _{DS(on)sense} typ. (V)	@V _{GS} =+20V, T _{ch} =25°C 0.9 @I _D =600A	0.8 @I _D =400A
	Source-drain on-voltage (sense) V _{SD(on)sense} typ. (V)	@V _{GS} =+20V, T _{ch} =25°C 0.8 @I _S =600A	0.8 @I _S =400A
	Source-drain off-voltage (sense) V _{SD(off)sense} typ. (V)	@V _{GS} =-6V, T _{ch} =25°C 1.6 @I _S =600A	1.6 @I _S =400A
	Turn-on switching loss E _{on} typ. (mJ) E _{on} typ. (mJ)	@T _{ch} =150°C 25 @ V _{DS} =600V, I _D =600A	28 @V _{DS} =900V, I _D =400A
	Turn-off switching loss E _{off} typ. (mJ) E _{off} typ. (mJ)	@T _{ch} =150°C 28 @ V _{DS} =600V, I _D =600A	27 @V _{DS} =900V, I _D =400A
Thermistor characteristics	Rated NTC resistance R typ. (kΩ)	5.0	5.0
	NTC B value B typ. (K)	@ T _{NTC} =25 - 150°C 3375	3375