Main Specifications

(Unless otherwise specified, T_a=25°C)

Part number			TCK420G	TCK421G [3]	TCK422G	TCK423G	TCK424G	TCK425G
Package	Name		WCSP6G					
	Size (mm)		1.2×0.8 (typ.), t=0.35 (max)					
Operating ranges	Input operation voltage V_{IN_opr} (V)	@T_a= -40 to 85°C	2.7 - 28					
Electrical characteristics	VIN UVLO threshold, V_{OUT} falling V_{IN_UVLO} typ./max (V)	@T_a= -40 to 85°C	2.0/2.5					
	VIN OVLO threshold, V_{OUT} falling V_{IN_OVLO} min/max (V)	@T_a= -40 to 85°C	26.50 /28.50	22.34 /24.05	13.61 /14.91		10.35 /11.47	5.76 /6.87
	Standby current (OFF state) $I_{Q(OFF)}$ max (µA)	@V_{IN}=5V, T_a= -40 to 85°C	0.5					
	GATE Drive voltage (V_{GATE1} — V_{IN}) (V_{GATE2} — V_{OUT}) V_{GS} typ. (V)	@V_{IN}= 12V/20V	10/10	10/10	10/-	5.6/-	-/-	-/-
	GATE Drive voltage (V_{GATE1} — V_{IN}) (V_{GATE2} — V_{OUT}) V_{GS} typ. (V)	@V_{IN}= 5V/9V	10/10	10/10	10/10	5.6/5.6	5.6/5.6	5.6/-
	V_{GS} ON time t_{ON} typ. (ms)	@V_{IN}=5V, $C_{GATE1,2}$= 4000pF	2.9					
	V_{GS} OFF time t_{OFF} typ. (µs)	@V_{IN}=5V, $C_{GATE1,2}$= 4000pF	52			23		
	OVLO V_{GS} turn OFF time t_{OVP} typ. (µs)	@$C_{GATE1,2}$= 4000pF	31	34	41	16	18	19
Sample Check & Availability			Buy Online	Buy Online	Buy Online	Buy Online	Buy Online	Buy Online