LITEON LITE-ON TECHNOLOGY CORP.

Property of Lite-On Only

LTR-578ALS

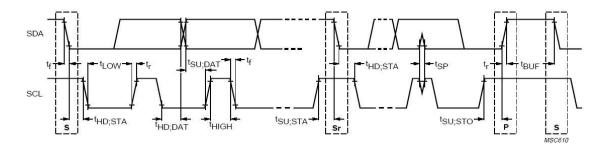
Appendix A (I2C specifications)

Part No.: LTR-578ALS 1 of 4

LITEON LITE-ON TECHNOLOGY CORP.

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I2C specifications



Definition of timing for I²C bus

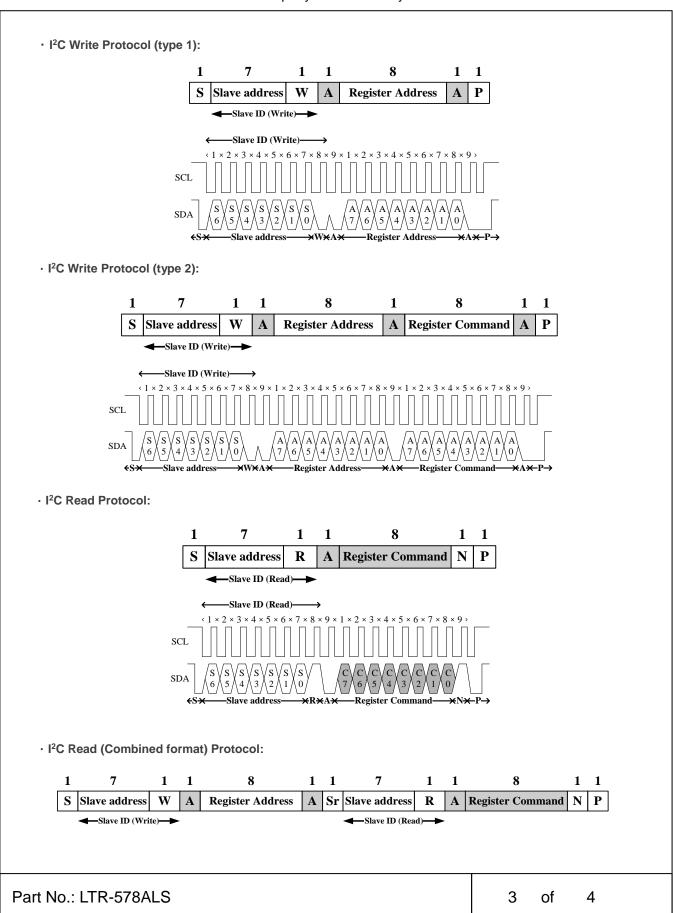
Parameter	Symbol	Standard mode		Fast mode		
		Min.	Max.	Min.	Max.	Unit
SCL clock frequency	$f_{ extit{SCL}}$	10	100 400		00	kHz
Bus free time between a STOP and START condition	$t_{\scriptscriptstyle BUF}$	4.7	-	1.3	-	us
Hold time (repeated) START condition. After this period, the first clock pulse is generated	$t_{HD;STA}$	4.0	-	0.6	-	us
LOW period of the SCL clock	t_{LOW}	4.7	-	1.3	-	us
HIGH period of the SCL clock	t_{HIGH}	4.0	-	0.6	-	us
Set-up time for a repeated START condition	$t_{\scriptscriptstyle SU;STA}$	4.7	-	0.6	-	us
Set-up time for STOP condition	$t_{\scriptscriptstyle SU;STO}$	4.0	-	0.6	-	us
Rise time of both SDA and SCL signals	t_r	-	1000	-	300	ns
Fall time of both SDA and SCL signals	t_f	-	300	-	300	ns
Data hold time	$t_{HD;DAT}$	0	-	0	-	us
Data setup time	$t_{SU;DAT}$	250	-	100	-	ns

All specifications are at VBus = 1.7V, T_{ope} = 25°C, unless otherwise noted.

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