

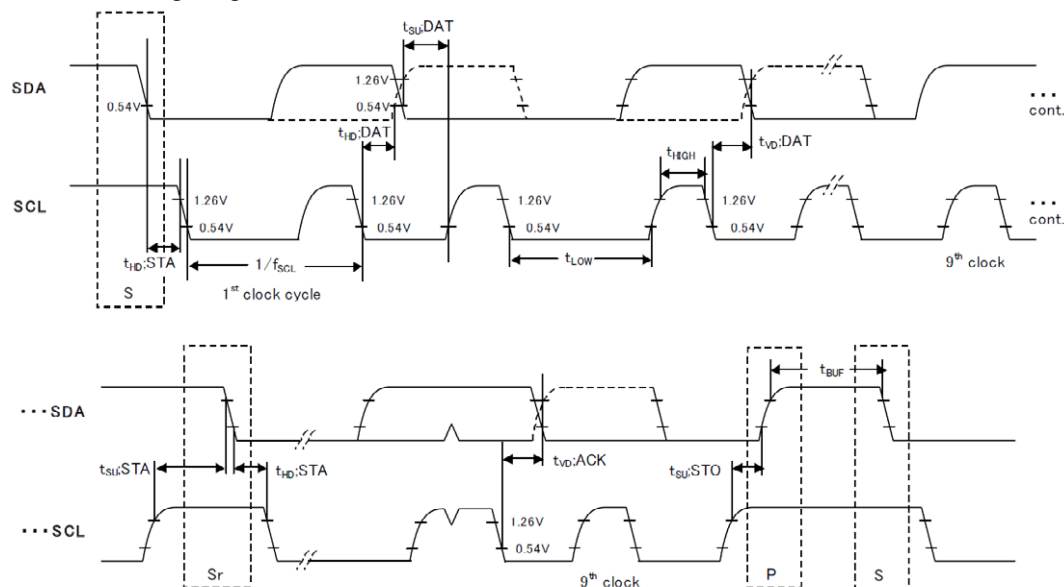
● Transmitter Electrical characteristics (Ta = 25°C, unless otherwise noted.)

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
LED Forward Voltage	VF	—	1.6	1.95	V	LED current =100mA
LED Peak Emission Wavelength	λ_p	—	940	—	nm	

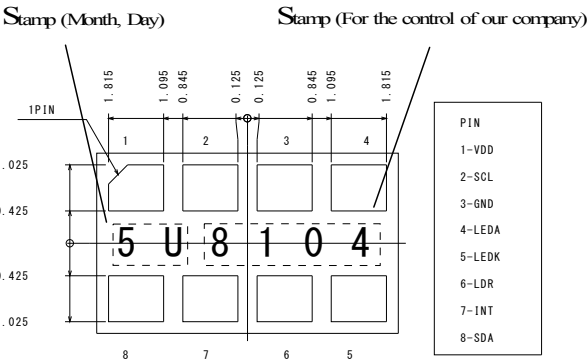
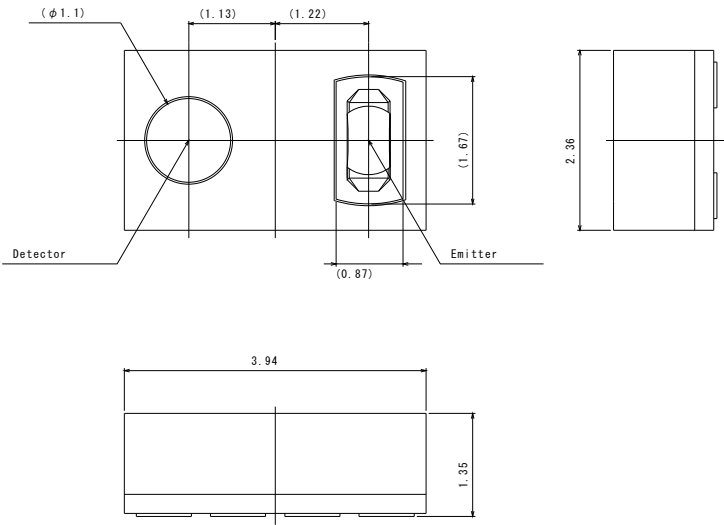
● I²C bus timing characteristics (VDD= 3.0V, Ta = 25°C, unless otherwise noted.)

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
I ² C SCL Clock Frequency	f _{SCL}	0	—	400	kHz	
I ² C START Condition Hold Time	t _{HD;STA}	0.6	—	—	us	
I ² C 'L' Period of the SCL Clock	t _{LOW}	1.3	—	—	us	
I ² C 'H' Period of the SCL Clock	t _{HIGH}	0.6	—	—	us	
I ² C S START Condition Set up time	t _{SU;STA}	0.6	—	—	us	
I ² C Data Hold Time	t _{HD;DAT}	0	—	—	us	
I ² C Data Setup Time	t _{SU;DAT}	100	—	—	ns	
I ² C STOP Condition Set up Time	t _{SU;STO}	0.6	—	—	us	
I ² C Bus Free Time	t _{BUF}	1.3	—	—	us	
I ² C Data Vaild Time	t _{VD;DAT}	—	—	0.9	us	
I ² C Data Vaild Acknowledge Time	t _{VD;ACK}	—	—	0.9	us	

I²C bus F/S-mode timing diagram



● Package outlines



- 1) Unit: mm
2) Tolerance shall be $\pm 0.2\text{mm}$ unless otherwise noted.

PIN Number	Symbol	Description
1	VDD	Supply Voltage
2	SCL	I ² C Clock, Input
3	GND	Ground
4	LEDA	LED Supply Voltage
5	LEDK	LED Cathode
6	LDR	LED Driver
7	INT	PS or ALS Interrupt Pin, Open Drain
8	SDA	I ² C Serial Data, Input/Output