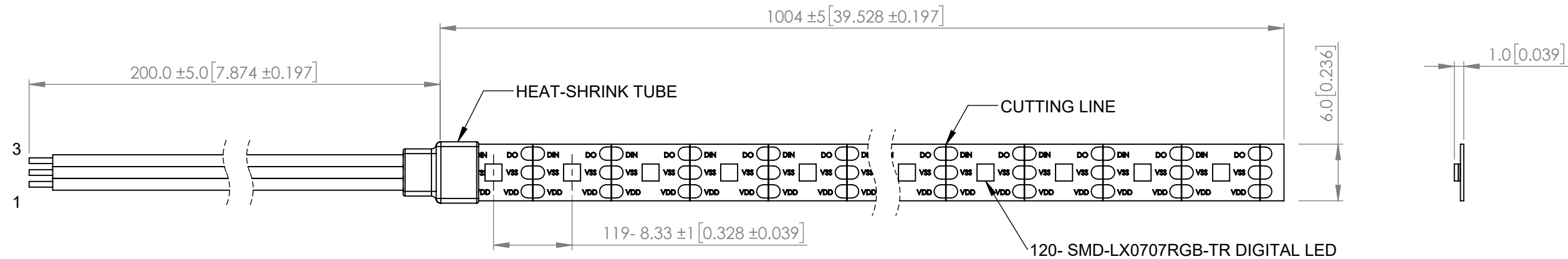


PART NUMBER		SMS-100006-120-N5	REV	B
REV	E.C.N. NUMBER AND REVISION COMMENTS			DATE
A	ECN-Lumex201900083			06.18.19
B	ECN-Lumex202000034			05.06.20



ELECTRO-OPTICAL CHARACTERISTIC TA=25°C PER SMD-LX0707RGB-TR DIGITAL LED

PARAMETER		MIN	TYP	MAX	UNITS	TEST COND
SUPPLY VOLTAGE	VDD	-	5	-	V	-
INPUT VOLTAGE(HIGH)	VIH	0.7VDD	-	VDD	V	-
INPUT VOLTAGE(LOW)	VIL	0	-	0.3VDD	V	-
PEAK WAVELENGTH	R	-	630	-	nm	If=5mA
	G	-	520	-		
	B	-	470	-		
LUMINOUS INTENSITY	R	72	-	180	mcd	If=5mA
	G	180	-	360		
	B	28.5	-	72		
VIEWING ANGLE		-	120	-	2x theta1/2	If=5mA

CABLE ASSIGNMENT

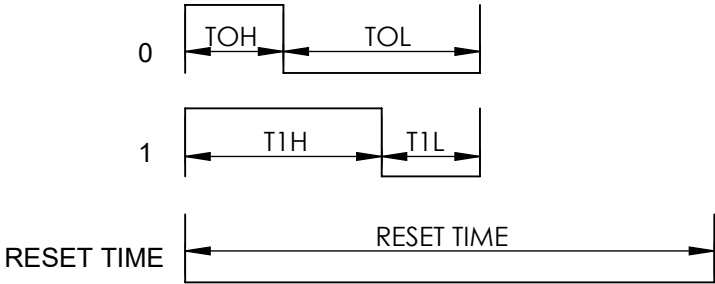
NO.	COLOR	SYMBOL
1	RED	VDD
2	GREEN	VSS
3	BLACK	DIN

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

RECOMMENDED OPERATING CONDITION Ta=-20~70℃ , VSS=0V

PARAMETER		MIN	TYP	MAX	UNITS	TEST COND
PROPAGATION DELAY TIME	TPLZ	-	-	300	ns	DIN→DOUT CL=15pF, RL=10KΩ
	TTHZ	-	-	20	us	CL=300pF OUTR/OUTG/OUTB
INPUT CAPACITOR	Tci	-	-	15	pf	

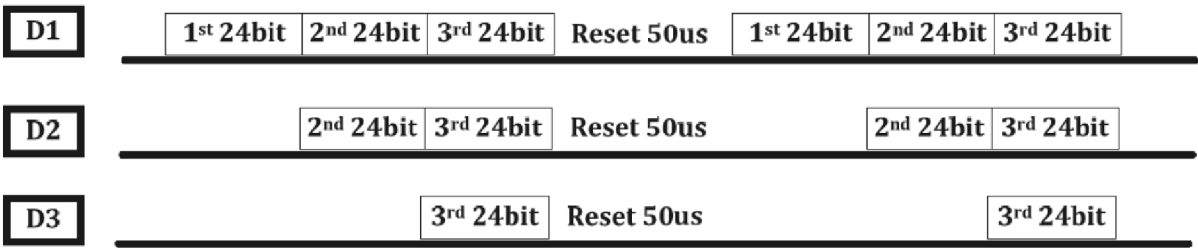
TIMING WAVE FORM



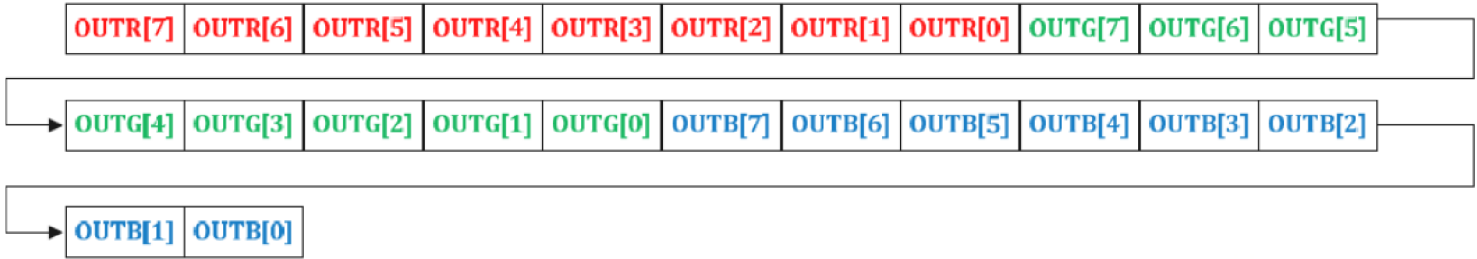
HIGH SPEED MODE

ITEM	DESCRIPTION	TYP.	ALLOWANCE
T0H	0 CODE, HIGH-LEVEL TIME	300ns	±80ns
T0L	0 CODE, LOW-LEVEL TIME	900ns	±80ns
T1H	1 CODE, HIGH-LEVEL TIME	900ns	±80ns
T1L	1 CODE, LOW-LEVEL TIME	300ns	±80ns
RES	RESET TIME	>50us	-

DATA COMMUNICATION



SINGLE DATA IN 24BIT FOR RGB



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= ^{+DECIMAL PRECISION}_{-0.00} MAX.= ^{+0.00}_{-DECIMAL PRECISION}