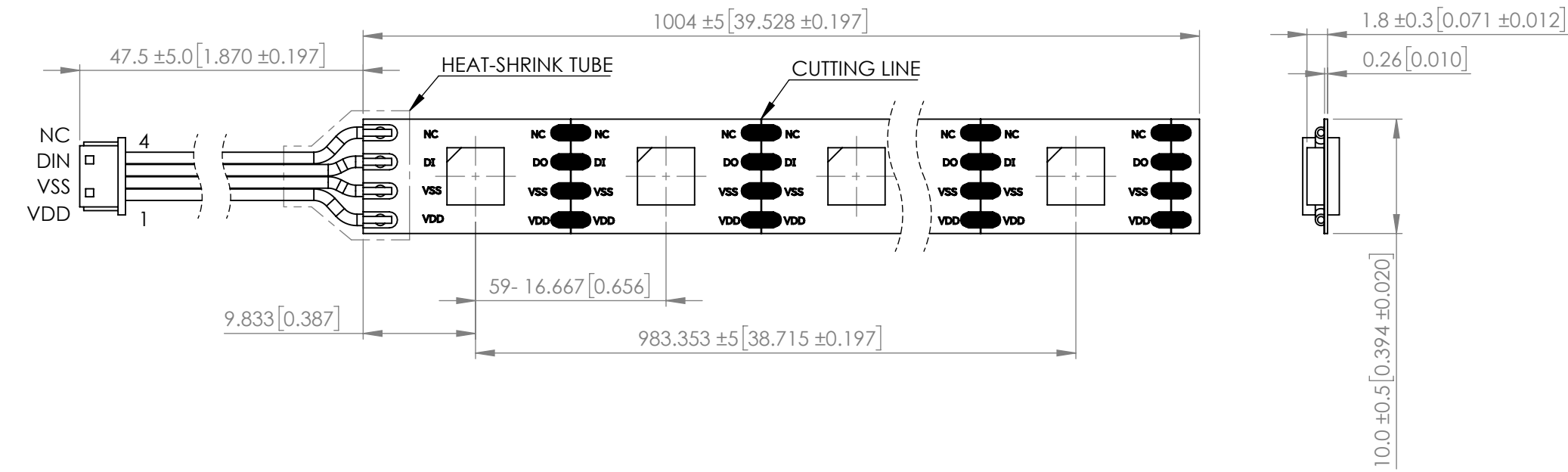


PART NUMBER		SMS-100010-60-N5	REV	B
REV	E.C.N. NUMBER AND REVISION COMMENTS			DATE
A	ECN-Lumex201900088			06.21.19
B	ECN-Lumex202000028			04.23.20



CABLE ASSIGNMENT

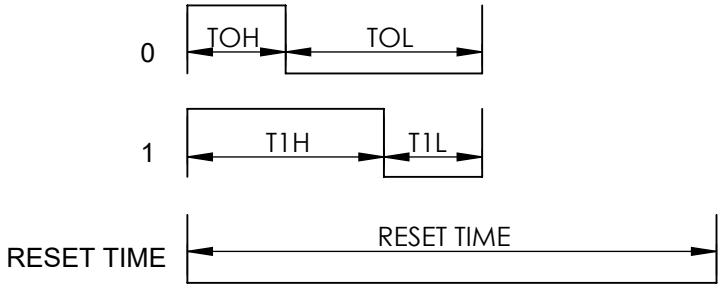
NO.	COLOR	SYMBOL
1	RED	VDD
2	BLACK	VSS
3	BLUE	DIN
4	YELLOW	NC

ELECTRO-OPTICAL CHARACTERISTIC TA=25°C PER SMD-LX5050RGB-TR DIGITAL LED

PARAMETER		MIN	TYP	MAX	UNITS	TEST COND
SUPPLY VOLTAGE	VDD	-	5	-	V	-
INPUT VOLTAGE(HIGH)	VIH	3.3	-	-	V	DIN, SET
INPUT VOLTAGE(LOW)	VIL	-	-	0.3VDD	V	DIN, SET
DOMINANT WAVELENGTH	R	-	625	-	nm	If=5mA
	G	-	530	-		
	B	-	470	-		
LUMINOUS INTENSITY	R	-	185	-	mcd	If=5mA
	G	-	590	-		
	B	-	150	-		
VIEWING ANGLE		-	120	-	2x theta 1/2	If=5mA
EPOXY LENS FINISH		WATER CLEAR				

*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

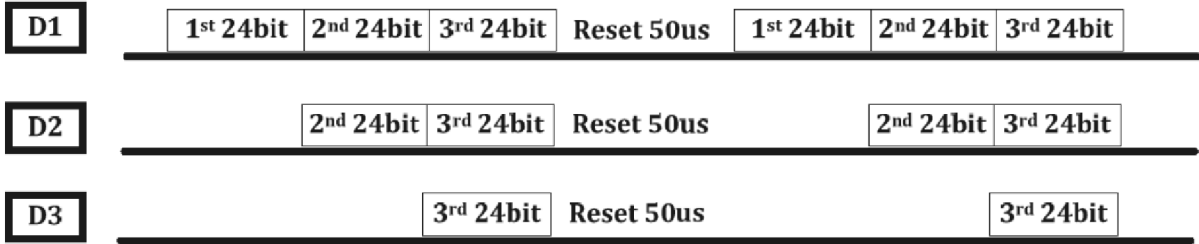
TIMING WAVE FORM



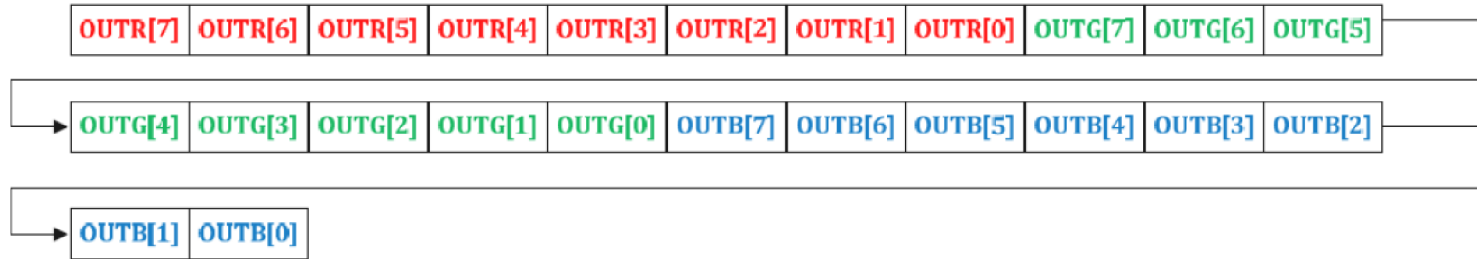
DATA TRANSFER TIME (TH+TL=1.2μs±600ns)

ITEM	DESCRIPTION	TYP.	ALLOWANCE
T0H	0 CODE, HIGH VOLTAGE TIME	0.3us	±80ns
T1H	1 CODE, HIGH VOLTAGE TIME	0.9us	±80ns
T0L	0 CODE, LOW VOLTAGE TIME	0.9us	±80ns
T1L	1 CODE, LOW VOLTAGE TIME	0.3us	±80ns
RES	LOW VOLTAGE TIME	ABOVE 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}