

# 6. Characteristics List

## Infrared LEDs, Visible LEDs

Type No.	Features	Maximum Ratings(Ta=25°C)			Electrical, Optical characteristics(Ta=25°C)					
		Forward Current (mA)	Pulse Forward Current (mA)	Operating Temperature (°C)	Rank	Radiant intensity(mW/sr)		I <sub>r</sub> (mA)	Radiant Power(mW)	
						Min.	Max.		Min.	Typical
TLN101A	TO-18 (with lens can)	100	1000	-40~+125	- C	- -	- -	- -	1.5 1.5	- -
TLN102	TO-18(with flat can)	100	1000	-40~+125	-	2	-	50	-	4.2
TLN103A	φ3	60	1000	-20~+75	-	0.5	-	20	-	2.5
TLN104	Double-end	40	400	-20~+85	- B	- -	- -	- -	1.5 2.5	- -
TLN104(LB)	Double-end (DIP)	40	400	-20~+85	- B	- -	- -	- -	1.5 2.5	- -
TLN105B	φ5	100	1000	-20~+75	-	12	-	50	-	11
TLN107A	Side View	50	600	-25~+85	- A B	0.8 0.8	- 3.0	20	-	2.5
TLN108	TO-18(with lens can)	100	1000	-40~+125	-	10	-	50	-	3
TLN110	φ5	100	1000	-20~+75	-	15	-	50	-	9
TLN113	φ3	40	400	-20~+75	- A B C AB BC	0.8 0.8	4.8 2.0	20	-	2.5
TLN115A	φ5	100	1000	-20~+75	- B	15 19	- -	50	-	13
TLN117	Compact Side View	50	600	-25~+85	- A B C	0.8 0.8	- 3.0	20	-	2.5
TLN119	φ3	60	600	-25~+85	- A B	2.5 2.5	10 6.0	20	-	4.5
TLN201	TO-18(with lens can)	100	1000	-40~+125	-	20	-	50	-	5
TLN203	φ3	50	1000	-20~+75	-	1	-	20	-	3.5
TLN205	φ5	100	1000	-20~+75	-	14	-	50	-	10
TLN208	φ2.7	50	400	-25~+60	-	-	-	-	7	12
TLN210	φ3.6 Side View	50	400	-25~+60	-	-	-	-	7	12
TLN211	φ3.6 Side View	50	400	-25~+60	-	-	-	-	7	12
TLN212	φ3.6 Side View	50	800	-25~+60	-	-	-	-	8	12
TLN221	φ5	100	1000	-25~+85	-	-	-	-	14	18
TLN222	φ5	100	1000	-25~+85	-	-	-	-	10	14
TLN223	φ5	100	1000	-25~+85	-	-	-	-	14	18
TLN224	φ5	100	1000	-25~+85	-	-	-	-	10	14
TLN225	φ4.9	100	1000	-25~+85	-	-	-	-	14	18
TLN226	φ4.9	100	1000	-25~+85	-	-	-	-	14	18
TLN227	φ5	100	1000	-25~+85	-	-	-	-	14	18
TLR215A	Side View	20	-	-25~+85	-	0.1	-	10	-	-
TLRA270	φ2	25	165	-20~+50	-	-	-	-	18	-
<b>NEW</b> TLYA7001	16-pin SOP	20	-	-30~+60	-	-	-	-	0.63(Note)	-
<b>NEW</b> TLYA7002	16-pin SOP	20	-	-30~+60	-	-	-	-	0.63(Note)	-

(Note) Unit : m&m

Electrical, Optical characteristics(Ta=25°C)							Application	External Dimension No.	Type No.	
Radiant Power(mW)		Peak Mission Wave Length (nm)	Half Value Angle ( ° )	Forward Voltage(V)						
Max.	I <sub>r</sub> (mA)			Typical	Max.	I <sub>r</sub> (mA)				
—	4.5	50	940	± 4	1.3	1.4	50	Optoelectric Switch	0-1	TLN101A
—									0-3	TLN102
—	20	940	±80	1.15	1.3	10	0-10		TLN103A	
—	6	20	940	±20	1.13	1.35	10		0-11	TLN104
—									0-12	TLN104(LB)
—	6	20	940	±20	1.13	1.35	10			
—	50	950	±23.5	1.35	1.5	100	Remote-Control	0-6	TLN105B	
—	20	940	±15	1.15	1.3	10	Photo Interrupter	0-13	TLN107A	
—	50	940	± 8	1.3	1.4	50	Optoelectric Switch	0-1	TLN108	
—	50	940	± 8	1.35	1.5	100		0-6	TLN110	
—	20	940	±40	1.15	1.3	10		0-10	TLN113	
—	50	950	±21	1.35	1.5	100	Remote-Control	0-6	TLN115A	
—	20	940	±15	1.15	1.3	10	Photo Interrupter	0-5	TLN117	
—	20	945	±30	1.15	1.3	10	Optoelectric Switch	0-9	TLN119	
—	50	880	± 7	1.5	1.9	50		0-1	TLN201	
—	20	880	±35	1.45	1.9	50		0-10	TLN203	
—	50	880	±15	1.5	1.9	50		0-6	TLN205	
—	300	875	±27	1.35	1.95	300	Camera (For flood light)	0-7	TLN208	
—	300	875	±32	1.35	1.95	300		0-15	TLN210	
—	300	950	±30	1.35	1.85	300	Camera	0-15	TLN211	
—	300	870	±35	1.35	1.85	300		0-15	TLN212	
—	50	870	±21	1.8	2.2	100	Space-Optical-Communication	0-6	TLN221	
—	50	870	±21	1.8	2.2	100		0-6	TLN222	
—	50	870	±13	1.8	2.2	100		0-6	TLN223	
—	50	870	±13	1.8	2.2	100		0-6	TLN224	
—	50	870	±21	1.6	1.8	100		0-22	TLN225	
—	50	870	±13	1.8	2.2	100		0-23	TLN226	
—	50	870	± 5	1.8	2.2	100		0-6	TLN227	
—	—	700	±15	2.05	2.6	15		Photo Interrupter	0-13	TLR215A
—	150	695	±15	1.8	3.2	150	Camera (for Supplemental light)	0-8	TLRA270	
3.78	1	588	—	1.9	2.3	1	Camera (printing)	0-25	NEW TLYA7001	
3.78	1	588	—	1.9	2.3	1		0-26	NEW TLYA7002	