

Part No. System

L - T 67 0 W D T - CW1 - R
 X1 X2 X3 X4 X5 X6 X7 X8

X1		X2		X3		X4	
View Type		Package Size (mm)		Number of Chip		Emitted Color	
Code	Type	Code	Type	Code	Type	Code	Type
T	Top View	65	3.0x2.0, 1.3T	0	Single chip	LB/TB	InGaN 465nm Blue
S	Side View	67	3.5x2.8, 1.9T	5/6	Dual chips	LG/SG	InGaN 525nm Ultra Green
		68	5.6x3.0, 0.9T	F	Three chips	KG	AllInGaP 572nm Super Yellow Green
		69	5.0x5.0, 1.5T		(Full colors)	KY/HY	AllInGaP 590nm Super Yellow
		02	3.8x1.2, 0.6T			KF	AllInGaP 605nm Super Amber
		2835	2.8x3.5, 0.8T			HE	AllInGaP 624nm Super Orange
		3014	3.0x1.4, 0.8T			KR	AllInGaP 630nm Super Red
						W	InGaN White
						IR4	GaAlAs 850nm Infrared
						RGB	AllInGaP 624nm Super Orange / InGaN 525nm Ultra Green / InGaN 470nm Blue

X5		X6		X7		X8	
Lens Color		Tape Spec.		Color Temperature		Ra	
Code	Type	Code	Type	Code	Type	Code	Type
C	Water Clear	T	Taping for 7" reel	CW1	5,500~6,500K	M	65~70
D	Light Yellow Diffused			CW3	5,200~6,000K	N	70~75
				CW2	5,000~7,000K	P	75~80
				CWA	5,000~5,500K	Q	80~85
				NW2	4,200~5,000K	R	≥85
				NWA	4,000~4,500K		
				NW1	3,800~4,600K		
				NW5	3,500~4,200K		
				WW2	2,850~3,250K		
				WW1	2,500~3,800K		

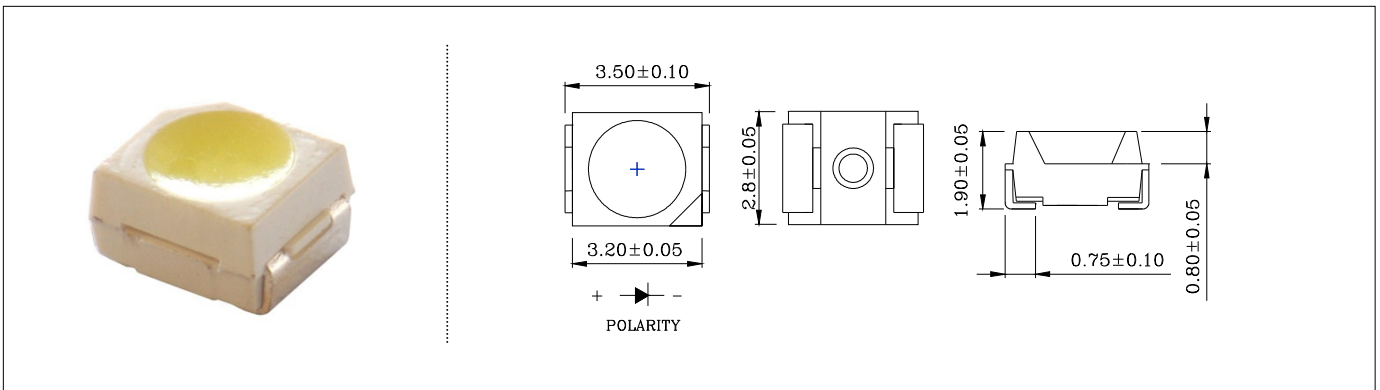
Reliability Test

Classification	Test Item	Test Condition	Reference Standard
Endurance Test	Operation Life	Ta= Under Room Temperature As Per Data Sheet Maximum Rating *Test Time= 1000HRS (-24HRS,+72HRS)	MIL-STD-750D:1026 (1995) MIL-STD-883D:1005 (1991) JIS C 7021:B-1 (1982)
	High Temperature High Humidity Storage	IR-Reflow In-Board, 2 Times Ta= 65 ± 5°C, RH= 90~95% *Test Time= 1000HRS ± 2HRS	MIL-STD-202F:103B(1980) JIS C 7021:B-11(1982)
	High Temperature Storage	Ta= 105 ± 5°C *Test Time= 1000HRS (-24HRS,72HRS)	MIL-STD-883D:1008 (1991) JIS C 7021:B-10 (1982)
	Low Temperature Storage	Ta= -40 ± 5°C *Test Time=1000HRS (-24HRS,72H RS)	JEITA ED-4701200 202
Environmental Test	Temperature Cycling	-40°C ~ 25°C~100°C~25°C 30min. 5min. 30min. 5min. 100 cycles	JEITA ED-4701100 105
	Thermal Shock	IR-Reflow In-Board, 2 Times -40°C ~ 100°C 30min. 30min. 100 cycles	JEITA ED-4701300 307
	Solder Resistance	Tsol= 260 ± 5°C Dwell Time= 10 ± 1 sec.	JEITA ED-4701300 301
	Solder Ability	Tsol= 235 ± 5°C Immersion time 2 ± 0.5 sec. Immersion rate 25 ± 2.5 mm/sec. Coverage ≥ 95% of the dipped surface	JEITA ED-4701300 303

- All PLCC product dimensions are in millimeters.
- Tolerance is ±0.1mm unless otherwise specified.

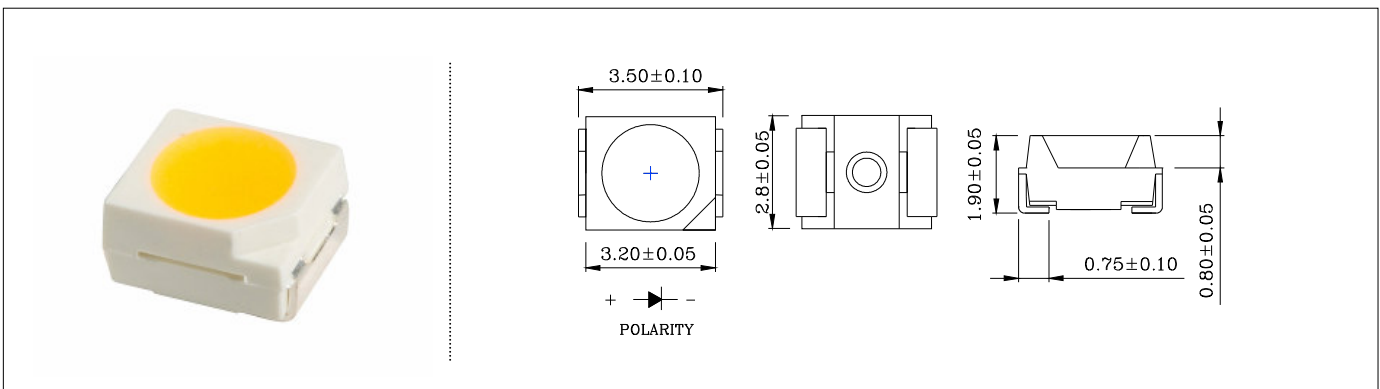
- Specifications are subject to change without notice.

LT670WDT-XXX -3.5x2.8x1.9mm SURFACE MOUNT DEVICE LED



Part No.	CRI	Chip		Lens Color	CCT(K)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-T670WDT	70	InGaN	Cool White	Light Yellow Diffused	5600~9000	3.2	3.6	1600	120
L-T670WDT-CW1-M-P	65	InGaN	Cool White	Light Yellow Diffused	5500-6500	3.2	3.6	2430	120
L-T670WDT-CW1	70	InGaN	Cool White	Light Yellow Diffused	5500-6500	3.2	3.6	2250	120
L-T670WDT-CW1-P	75	InGaN	Cool White	Light Yellow Diffused	5500-6500	3.2	3.6	2250	120
L-T670WDT-CW1-Q	80	InGaN	Cool White	Light Yellow Diffused	5500-6500	3.2	3.6	2250	120
L-T670WDT-CW1-R	85	InGaN	Cool White	Light Yellow Diffused	5500-6500	3.2	3.6	2200	120

LT670WDT-XXXX -3.5x2.8x1.9mm SURFACE MOUNT DEVICE LED

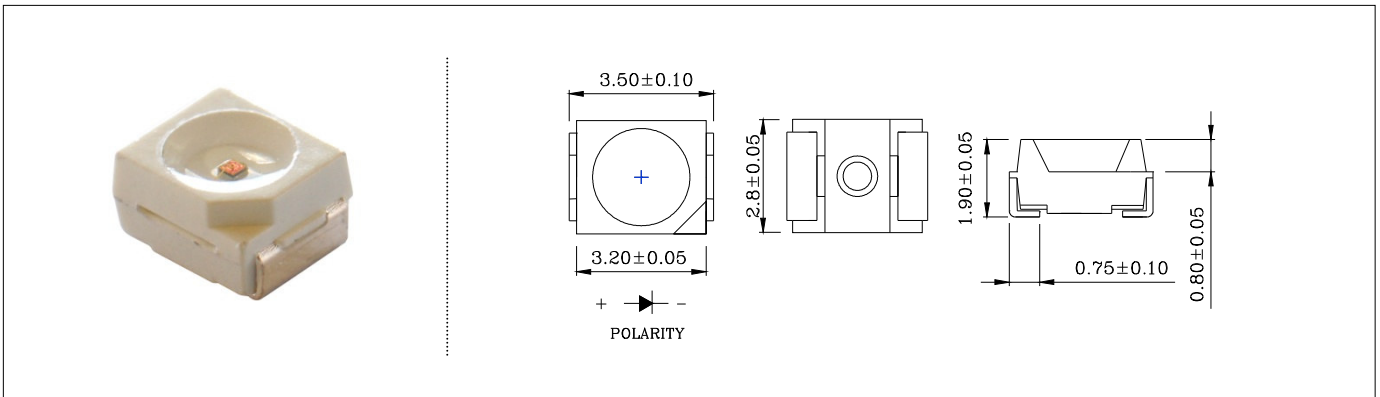


Part No.	CRI	Chip		Lens Color	CCT(K)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-T670WDT-NW1	70	InGaN	Neutral White	Light Yellow Diffused	3800-4600	3.2	3.6	2250	120
LT670WDT-NW5-P	75	InGaN	Neutral White	Light Yellow Diffused	3500-4200	3.2	3.6	2350	120
L-T670WDT-NW2-Q	80	InGaN	Neutral White	Light Yellow Diffused	4200-5000	3.2	3.6	2250	120
L-T670WDT-NW2-R	85	InGaN	Neutral White	Light Yellow Diffused	4200-5000	3.2	3.6	2200	120
L-T670WDT-WW1	70	InGaN	Warm White	Light Yellow Diffused	2670-3800	3.2	3.6	2200	120
L-T670WDT-WW1-Q	80	InGaN	Warm White	Light Yellow Diffused	2500-3500	3.2	3.6	2100	120
L-T670WDT-WW1-R	85	InGaN	Warm White	Light Yellow Diffused	2500-3500	3.2	3.6	2100	120

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LT670XXCT -3.5x2.8x1.9mm SURFACE MOUNT DEVICE LED

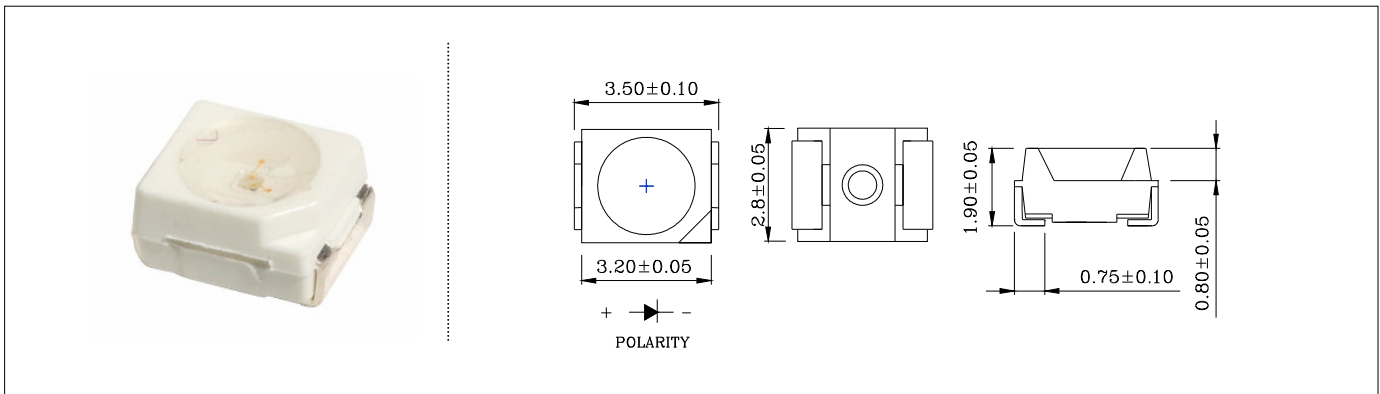
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Part No.	Chip		Lens Color	Wave Length λ D(nm)	Electro-optical characteristics			View Angle (deg.)
	Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
					Typ.	Max.	Typ.	
L-T670KRCT	AllnGaP	● Super Red	Water Clear	630	2.0	2.5	100	120
L-T670HECT*	AllnGaP	● Super Orange	Water Clear	624	2.0	2.5	500	120
L-T670KFCT	AllnGaP	● Super Amber	Water Clear	605	2.0	2.5	190	120
L-T670KYCT	AllnGaP	● Super Yellow	Water Clear	590	2.0	2.5	230	120
L-T670HYCT*	AllnGaP	● Super Yellow	Water Clear	590	2.0	2.5	590	120
L-T670KGCT	AllnGaP	● Super Yellow Green	Water Clear	572	2.0	2.5	70	120

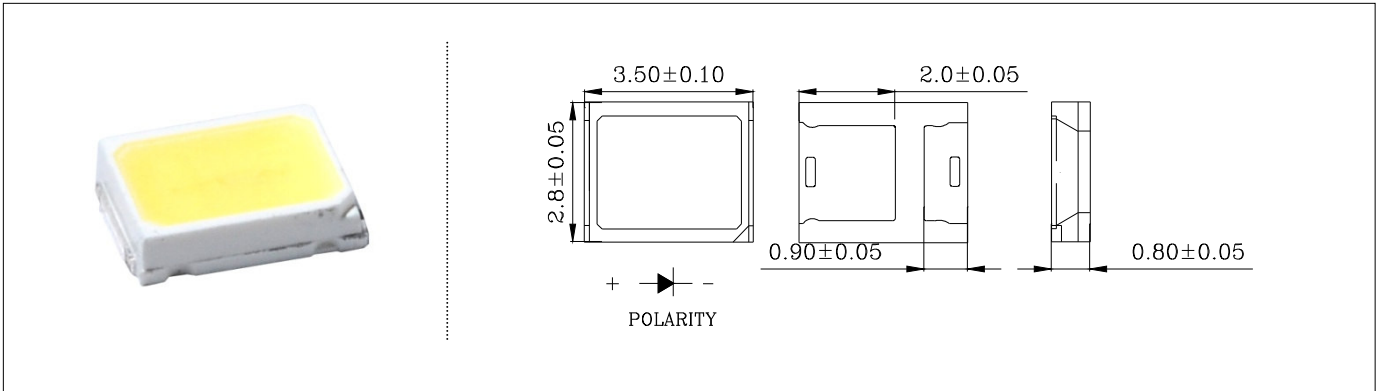
* Reverse polarity

LT670XXCT -3.5x2.8x1.9mm SURFACE MOUNT DEVICE LED



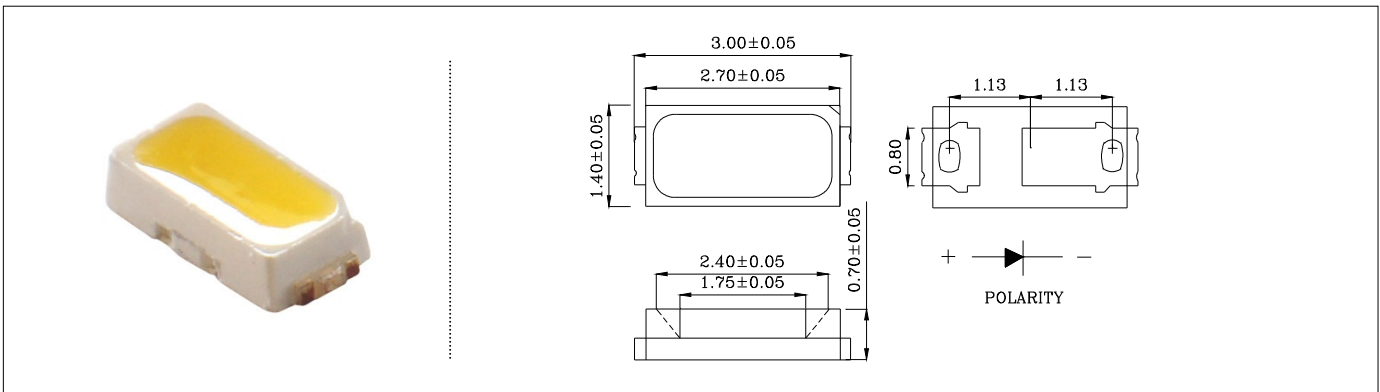
Part No.	Chip		Lens Color	Wave Length λ D(nm)	Electro-optical characteristics			View Angle (deg.)
	Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
					Typ.	Max.	Typ.	
L-T670SGCT	InGaN	● Ultra Green	Water Clear	525	3.2	3.6	1000	120
L-T670LGCT	InGaN	● Ultra Green	Water Clear	525	3.2	3.6	1100	120
L-T670TBCT (5mA)	InGaN	● Blue	Water Clear	465	3.0	3.6	60	120
L-T670LBCT	InGaN	● Blue	Water Clear	465	3.2	3.6	280	120
L-T670IR4CT (70mA)	GaAlAs	Infrared	Water Clear	850 (λ P)	1.6	1.9	1.1mW/sr	120

LT2835WDT-XXX -3.5x2.8x0.8mm SURFACE MOUNT DEVICE LED



Part No.	CRI	Chip		Lens Color	CCT(K)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)60mA		IV(mcd)60mA	
						Typ.	Max.	Typ.	
L-T2835WDT-CW1-Q	80	InGaN	Cool White	Light Yellow Diffused	5500-6500	3.2	3.6	6300	120
L-T2835WDT-NW1-Q	80	InGaN	Neutral White	Light Yellow Diffused	3800-4600	3.2	3.6	6500	120
L-T2835WDT-WW1-Q	80	InGaN	Warm White	Light Yellow Diffused	2850-3250	3.2	3.6	6200	120

LT3014WDT-XXXX -3.0x1.4x0.7mm SURFACE MOUNT DEVICE LED

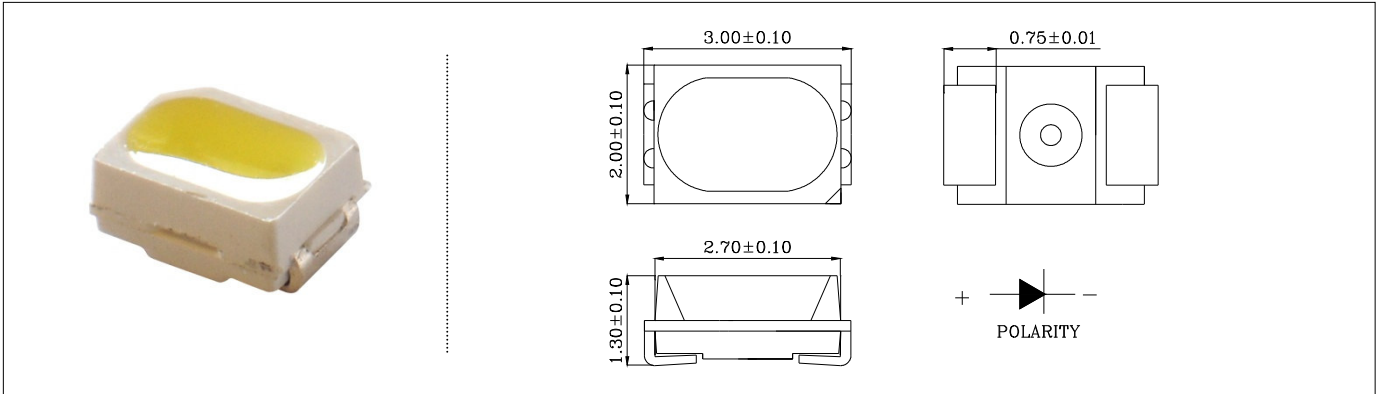


Part No.	CRI	Chip		Lens Color	CCT(K)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)30mA		IV(mcd)30mA	
						Typ.	Max.	Typ.	
L-T3014CWDT	70	InGaN	Cool White	Light Yellow Diffused	5500-6500	3.2	3.6	3400	120
L-T3014NWDT	70	InGaN	Neutral White	Light Yellow Diffused	4250-4750	3.2	3.6	3400	120
L-T3014WWDT	70	InGaN	Warm White	Light Yellow Diffused	2850-3250	3.2	3.6	3200	120

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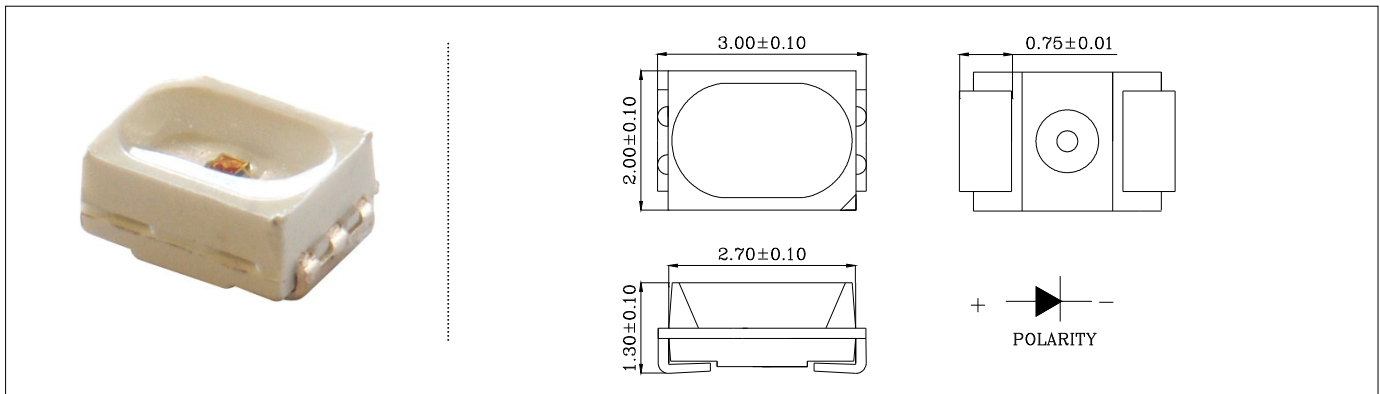
LT650WDT-XXXX -3.0x2.0x1.3mm SURFACE MOUNT DEVICE LED

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Part No.	Chip		Lens Color	CCT(K)	Electro-optical characteristics			View Angle (deg.)
	Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
					Typ.	Max.	Typ.	
LT650WDT	InGaN	Cool White	Light Yellow Diffused	7000-9000	3.0	3.4	1700	120
LT650WDT-WW2	InGaN	Warm White	Light Yellow Diffused	2850-3250	3.0	3.4	2100	120
LT650WDT-CW3	InGaN	Cool White	Light Yellow Diffused	5200-6000	3.0	3.4	2200	120

LT650XXCT -3.0x2.0x1.3mm SURFACE MOUNT DEVICE LED



Part No.	Chip		Lens Color	Wave Length λD(nm)	Electro-optical characteristics			View Angle (deg.)
	Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
					Typ.	Max.	Typ.	
LT650KYCT	AllInGaP	Super Yellow	Water Clear	590	2.0	2.5	200	120
LT650HYCT*	AllInGaP	Super Yellow	Water Clear	590	2.0	2.5	430	120
LT650KFCT	AllInGaP	Super Amber	Water Clear	605	2.0	2.5	280	120
LT650KRCT	AllInGaP	Super Red	Water Clear	630	2.0	2.5	100	120
LT650HECT*	AllInGaP	Super Orange	Water Clear	624	2.0	2.5	500	120
LT650LBCT	InGaN	Blue	Water Clear	465	3.2	3.6	200	120
LT650SGCT	InGaN	Ultra Green	Water Clear	525	3.2	3.6	900	120

LT69FRGBCT -5.4x5.0x1.5mm SURFACE MOUNT DEVICE LED

Part No.	Chip		Lens Color	Wave Length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
	Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
					Typ.	Max.	Typ.	
LT69FRGBCT	AllInGaP	● Super Orange	Water Clear	624	2.0	2.5	480	120
	InGaN	● Ultra Green		525	3.2	3.6	1200	
	InGaN	● Blue		470	3.2	3.6	280	

LT690WDT-XXXX -5.4x5.0x1.5mm SURFACE MOUNT DEVICE LED

Part No.	CRI	Chip		Lens Color	CCT(K)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)60mA		IV(mcd)60mA	
						Typ.	Max.	Typ.	
L-T690WDT-CWA-P	75	InGaN	● Cool White	Light Yellow Diffused	5000-5500	3.2	3.5	4700	120
L-T690WDT-NWA	---	InGaN	○ Neutral White	Light Yellow Diffused	4000-4500	3.2	3.5	5700	120