

SMD LED



FEATURES

- Available in high density, small size design application such as cellular phone
- High brightness, wide variety of color
- A variety of package styles (Inner lens type, Flat lens type, Dual lens type)

SPECIFICATIONS

101 SERIES (1.6×0.8mm: 0.8T)

- Back Light LED For Key Pad
- Cellular Phone (CDMA, Analogue), GSM, CT-II, PCS, PHS CAMERA, CAR AUDIO, PAGER etc.

MODEL	COLOR	WAVE LENGTH		mcd (I _F = 20mA)	V _F (I _F = 20mA)		I _R (V _R = 4V)	
		λ _P	Δλ	Typ.	Typ.	Max.	Typ.	
LENS (1.6 X 0.8) FLAT 	SLS-NNUR101TS	U-RED	660	20	65	2.1	2.50	100
	SLS-NNHR101TS	HI-RED	630	40	13	1.80	2.40	
	SLS-NNAM101TS	AMBER	610	30	13	2.00	2.40	
	SLS-NNYG101TS	YELLOW GREEN	570	26	20, 35	2.20	2.60	
	SLS-NNGR101TS	GREEN	560	24	8	2.10	2.50	
	SLS-NNBL101TS	BLUE	520	30	10	3.4	4.5	
	SLS-NNFR101TS	HI-RED(SUPER-A)	630	30	130	1.8	2.4	
	SLS-NNFR101TS	AMBER(SUPER-A)	610	30	110	1.9	2.5	
SLS-NNFY101TS	YELLOW(SUPER-A)	587	30	80	1.9	2.5		

102 SERIES (1.6×0.8mm: 0.6T): LOW PROFILE LED

- Back Light LED For Key Pad
- Cellular Phone (CDMA, Analogue), GSM, CT-II, PCS, PHS CAMERA, CAR AUDIO, PAGER etc.

MODEL	COLOR	WAVE LENGTH		mcd (I _F = 20mA)	V _F (I _F = 20mA)		I _R (V _R = 4V)	
		λ _P	Δλ	Typ.	Typ.	Max.	Typ.	
LENS (1.6 X 0.8) FLAT 	SLS-NNUR102TS	U-RED	660	20	65	2.1	2.50	100
	SLS-NNHR102TS	HI-RED	630	40	13	1.80	2.40	
	SLS-NNAM102TS	AMBER	610	30	13	2.00	2.40	
	SLS-NNYG102TS	YELLOW GREEN	570	26	20, 35	2.20	2.60	
	SLS-NNGR102TS	GREEN	560	24	8	2.10	2.50	
	SLS-NNBL102TS	BLUE	520	30	10	3.4	4.5	
	SLS-NNFR102TS	HI-RED(SUPER-A)	630	30	130	1.8	2.4	
	SLS-NNFR102TS	AMBER(SUPER-A)	610	30	110	1.9	2.5	
SLS-NNFY102TS	YELLOW(SUPER-A)	587	30	80	1.9	2.5		

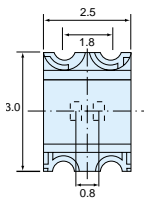
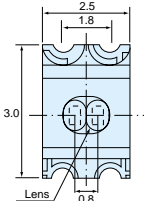
201, 202 SERIES (3.0×1.5mm)

- Back Light LED For Key Pad
- CLP, FAX, KEY-PHONE, CAR AUDIO etc.

MODEL	COLOR	WAVE LENGTH		mcd (I _F = 20mA)	V _F (I _F = 10mA)		I _R (V _R = 4V)	
		λ _P	Δλ	Typ.	Typ.	Max.	Typ.	
FLAT LENS (3.0X1.5) 	SLS-NNRD201TS	RED	700	100	1.2	2.0	2.5	100
	SLS-NNUR201TS	UB-RED	660	30	60.0	1.7	2.2	
	SLS-NNHR201TS	HI-RED	630	35	7.0	1.9		
	SLS-NNAM201TS	AMBER	610	35	14.5	1.9		
	SLS-NNYE201TS	YELLOW	587	33	10.0	1.9	2.5	
	SLS-NNGR201TS	GREEN	560	20	15.0	2.0		
	SLS-NNPG201TS	P-GREEN	555	20	6.5	2.0		
SLS-NNBL201TM	BLUE	520	30	40	3.4	4.2		
INNER LENS (3.0X1.5) 	SLS-NNRD202TS	RED	700	100	1.2	2.0	2.5	100
	SLS-NNUR202TS	UB-RED	660	30	60.0	1.7	2.2	
	SLS-NNHR202TS	HI-RED	630	35	7.0	1.9		
	SLS-NNAM202TS	AMBER	610	35	14.5	1.9		
	SLS-NNYG202TS	YELLOW	587	33	10.0	1.9	2.5	
	SLS-NNGR202TS	GREEN	560	20	15.0	2.0		
	SLS-NNPG202TS	P-GREEN	555	20	6.5	2.0		
SLS-NNBL202TM	BLUE	520	30	40	3.4	4.2		

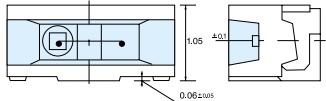
301, 302 SERIES(3.0×2.5mm)

- Back Light LED For Key Pad
- Key-phone, CLP, FAX, etc.

MODEL		COLOR	WAVE LENGTH		mcd(I _F = 20mA)	V _F (I _F = 10mA)		I _R (V _R = 4V)	
			λ _P	Δλ	Typ.	Typ.	Max.	Typ.	
DUAL FLAT LENS (3.0X2.5)		SLS-YGHR30TM	Y-GREEN	555	20	6.5	2.0	2.5	100
			H-RED	585	33	10	1.9		
		SLS-YGUR30TM	Y-GREEN	560	20	30	2.2	2.2	
			U-RED	660	30	60	1.7		
DUAL INNER LENS (3.0X2.5)		SLS-YGHR302TM	Y-GREEN	560	20	20	2.0	2.5	100
			H-RED	630	35	20	2.0		
		SLS-YGUR302TM	Y-GREEN	570	20	30	2.0	2.2	
			U-RED	660	30	60	1.7		

401 SERIES(2.8×1.2mm: 1.05T): SIDE VIEW SMD-LED

- Side Light LED for LCD Display on cellular Phone

MODEL		COLOR	WAVE LENGTH		mcd(I _F = 20mA)	V _F (I _F = 10mA)		I _R (V _R = 4V)	
			λ _P	Δλ	Typ.	Typ.	Max.	Typ.	
INNER LENS (2.8X1.2) 1.05T		SLS-NNYG 401TM	YELLOW GREEN	570	20	30	2.0	2.5	100

LED CHIP

		VISIBLE LED CHIP			IR LED CHIP	
MODEL		SLC-570-YG SERIES	SLC-630-SO SERIES	SLC-660-DR SERIES	SLC-940-WI SERIES	SLC-880-SH SERIES
MATERIALS		GaP / GaP	GaAsP / GaP	GaAlAs / GaAs	GaAlAs / GaAs	GaAlAs / GaAlAs
COLOR		Y-GREEN	ORANGE	DH-RED	IR-WINDOW	IR
λ _P (nm)		570	630	660	940	880
CHIP SIZE(μm)		300	300	300	300	300
ELECTRODE		Au-Alloy	Au-Alloy	Au-Alloy	Au-Alloy	Au-Alloy
V _F (20mA)	TYP.	2.20	2.00	1.80	1.40	1.40
	MIN.	2.50	2.40	2.00	1.60	1.60
L _F (20mA) P ₀ (100mA)	MAX	5.0mcd	5.0mcd	14.5mcd		
	TYP.	10.0mcd	9.0mcd	18.0mcd	9.0mW	3.5mW