



SUPER BRIGHT LED LAMP

ROUND SHAPE TYPE
φ3 (T-1)

3403S/3413S/3423S/3433S SERIES

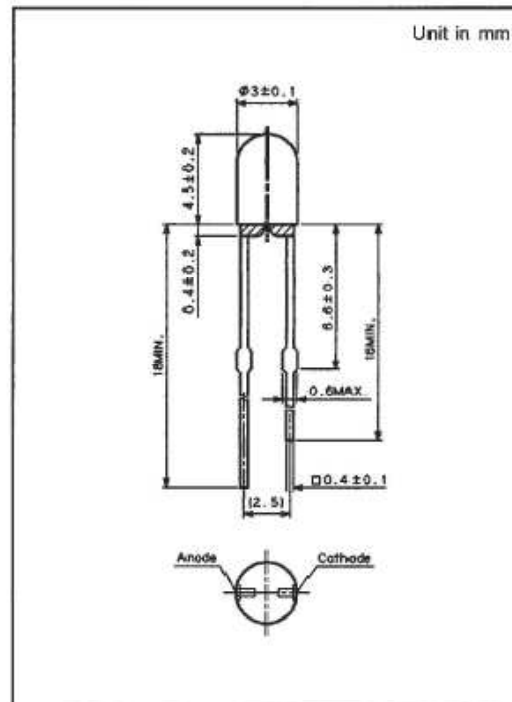
FEATURES

- AVAILABLE IN 4 COLORS; RED, GREEN, YELLOW AND ORANGE
- ALL RESIN MOLDED PACKAGE
- AVAILABLE IN WIDE VIEWING AND NARROW VIEWING ANGLES
- LOW CURRENT DRIVE
- LARGE ALLOWABLE CURRENT CAPACITY, EXCELLENT FOR PULSE DRIVE
- HIGH RELIABILITY, LONG LIFE

APPLICATION

- LIGHT SOURCE FOR OA EQUIPMENT
- LIGHT SOURCE FOR AV EQUIPMENT
- LIGHT SOURCE FOR ILLUMINATED SWITCH

Package Dimension



Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Red			Green		Yellow		Orange	Units
		BR	AR	PR	BG	PG(Y)	PY	AY	AA	
Forward Current	I _F	50	50	30	50	50	50	50	50	mA
Peak Forward Current	I _{FM}	300	300	100	100	100	100	100	100	mA
Reverse Voltage	V _R	4			4		4		4	V
Power Dissipation	P _d	100	100	75	125	125	125	125	125	mW
Operating Temperature	T _{opr}	-30 ~ +85			-30 ~ +85		-30 ~ +85		-30 ~ +85	°C
Storage Temperature	T _{stg}	-30 ~ +100			-30 ~ +100		-30 ~ +100		-30 ~ +100	°C
Lead Soldering Temperature		240°C for 3 seconds (3.0mm from body)								

* The current derating for operation above 25°C is 0.67mA/°C for BR/BG/PG/PY/AY/AA, 0.40mA/°C for MVR/MPR/MPY/MAY and 0.33mA/°C for VR/PR/MBG/MPG/MAA.

Electro-Optical Characteristics

(Ta=25°C)

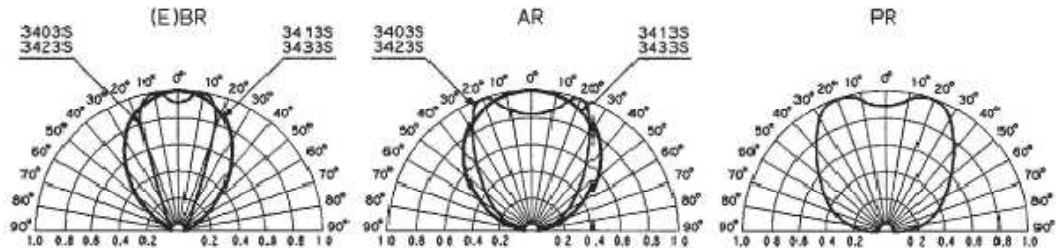
Type No.	Chip		Lens *	Iv(mod)		at If (mA)	Peak Wave Length λp(nm)	Spectral Line Half Width Δλ(nm)	Vf(V)		at If (mA)	at V _{R4V} I _R (μA)	Capacitance Co(pF)
	Material	Emitted Color		Min.	Typ.				Typ.	Max.			
BR3403S (23S)	GaAlAs	Red	W.C. (C.C.)	6.0	12.0	20	660	30	1.7	2.0	20	100	50
BR3433S (13S)	GaAlAs	Red	C.D. (W.D.)	5.0	10.0	20	660	30	1.7	2.0	20	100	50
EBR3403S (23S)	GaAlAs	Red	W.C. (C.C.)	12.0	18.0	20	660	30	1.7	2.0	20	100	50
EBR3433S (13S)	GaAlAs	Red	C.D. (W.D.)	10.0	15.0	20	660	30	1.7	2.0	20	100	50
AR3403S (23S)	GaAsP	Red	W.C. (C.C.)	0.6	1.2	20	650	30	1.7	2.0	20	100	40
AR3433S (13S)	GaAsP	Red	C.D. (W.D.)	0.5	0.8	20	650	30	1.7	2.0	20	100	40
PR3403S (23S)	GaP	Red	W.C. (C.C.)	0.6	1.2	10	700	100	2.1	2.5	10	100	70
PR3433S (13S)	GaP	Red	C.D. (W.D.)	0.5	0.8	10	700	100	2.1	2.5	10	100	70
BG3403S (23S)	GaP	Green	W.C. (C.C.)	1.2	2.4	20	555	30	2.1	2.5	20	100	50
BG3433S (13S)	GaP	Green	C.D. (W.D.)	0.8	1.6	20	555	30	2.1	2.5	20	100	50
EBG3403S (23S)	GaP	Green	W.C. (C.C.)	2.4	3.6	20	555	30	2.1	2.5	20	100	50
EBG3433S (13S)	GaP	Green	C.D. (W.D.)	1.6	2.4	20	555	30	2.1	2.5	20	100	50
PG3423SY	GaP	Green	C.C.	4.0	8.0	20	565	30	2.1	2.5	20	100	40
PG3433SY	GaP	Green	C.D.	3.0	6.0	20	565	30	2.1	2.5	20	100	40
PY3403S (23S)	GaP	Yellow	W.C. (C.C.)	5.0	10.0	20	570	30	2.1	2.5	20	100	40
PY3433S (13S)	GaP	Yellow	C.D. (W.D.)	4.0	8.0	20	570	30	2.1	2.5	20	100	40
EPY3403S (23S)	GaP	Yellow	W.C. (C.C.)	10.0	15.0	20	570	30	2.1	2.5	20	100	40
EPY3433S (13S)	GaP	Yellow	C.D. (W.D.)	8.0	12.0	20	570	30	2.1	2.5	20	100	40
AY3403S (23S)	GaAsP/ GaP	Yellow	W.C. (C.C.)	3.0	6.0	20	580	30	2.2	2.5	20	100	40
AY3433S (13S)	GaAsP/ GaP	Yellow	C.D. (W.D.)	2.5	5.0	20	580	30	2.2	2.5	20	100	40
EAY3403S (23S)	GaAsP/ GaP	Yellow	W.C. (C.C.)	6.0	9.0	20	580	30	2.2	2.5	20	100	40
EAY3433S (13S)	GaAsP/ GaP	Yellow	C.D. (W.D.)	5.0	8.0	20	580	30	2.2	2.5	20	100	40
AA3403S (23S)	GaAsP/ GaP	Orange	W.C. (C.C.)	3.0	6.0	20	605	30	2.2	2.5	20	100	50
AA3433S (13S)	GaAsP/ GaP	Orange	C.D. (W.D.)	2.5	5.0	20	605	30	2.2	2.5	20	100	50
EAA3403S (23S)	GaAsP/ GaP	Orange	W.C. (C.C.)	6.0	9.0	20	605	30	2.2	2.5	20	100	50
EAA3433S (13S)	GaAsP/ GaP	Orange	C.D. (W.D.)	5.0	8.0	20	605	30	2.2	2.5	20	100	50

* W.C. = Water Clear
W.D. = Water Diffused
C.C. = Color Clear

C.D. = Color Diffused
W.S.D. = White Surface Diffused
C.S.D. = Color Surface Diffused

P.C. = Pastel Color
P.D. = Pastel Diffused
P.S.D. = Pastel Surface Diffused

SPATIAL DISTRIBUTION



ORANGE

