

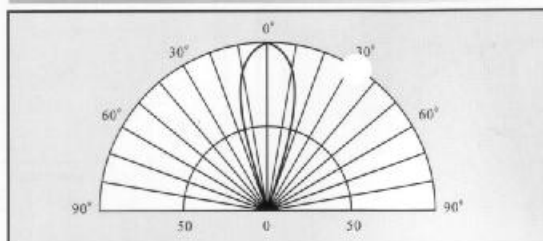
# Mono-Color/ $\Phi$ 3 Series



## Characters

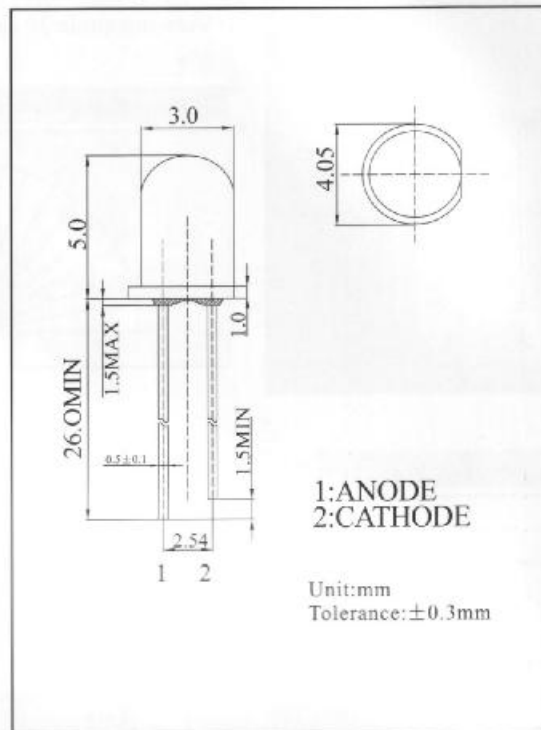
- Viewing angle 30 deg

Directive characteristics (Ta=25°C)



Relative Luminous Intensity

## Package Outlines (Unit:mm)



## Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I <sub>F</sub>	50	mA
Pulse Forward Current	I <sub>FP</sub>	150*1	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	200	mW
Operating Temperature	T <sub>opr</sub>	-30~+85	°C
Storage Temperature	T <sub>stg</sub>	-30~+100	°C

\*1 Duty 1/10 Pulse Width 10 ms

## Electrical and Optical Characteristics

Part Number*2	Emitting Color	Lens Type	Forward Voltage VF(V)		Dominant Wavelength λ d (nm)*5		Luminous Intensity I <sub>v</sub> (mcd)*3		Reverse Current IR (μ A) AT VR=5V <10		
			Working Current:IF=20mA								
			Typ.	Max.	Typ.	Max.	Typ.	Max.			
OSUG3131A	Yellow Green	Water Clear	2.0	2.4	570	575	1000	1500	<10		
OSYL3131A	Yellow	Water Clear	2.0	2.4	585	595	3000	6000	<10		
OSOR3131A	Orange	Water Clear	2.0	2.4	600	610	3000	6000	<10		
OSHR3131A	High Red	Water Clear	2.0	2.4	625	630	3000	6000	<10		
OSUR3131A	Red	Water Clear	2.0	2.4	635	640	1560	3000	<10		
OSHR3133A	High Red	Color Transparent	2.0	2.4	625	630	2180	4500	<10		
OSUG3134A	Yellow Green	Color Diffused	2.0	2.4	570	575	150	200	<10		
OSYL3134A	Yellow	Color Diffused	2.0	2.4	585	595	150	200	<10		
OSOR3134A	Orange	Color Diffused	2.0	2.4	600	610	150	200	<10		
OSHR3134A	High Red	Color Diffused	2.0	2.4	625	630	150	200	<10		
OSUR3134A	Red	Color Diffused	2.0	2.4	635	640	120	150	<10		
OSNG3134A	Normal Green	Color Diffused	2.0	2.4	570	575	58	80	<10		
OSNY3134A	Normal Yellow	Color Diffused	2.0	2.4	585	595	58	80	<10		
OSNR3134A	Normal Red	Color Diffused	2.0	2.4	690	700	58	80	<10		
OSIR3131A	Infrared	Water Clear	1.2	1.7	850	940	20**	50**	<10		

\*2 See table for Luminous Intensity Ranks

\*3 Axial Direction (Luminous Intensity)

\*4 Unit:mW/sr

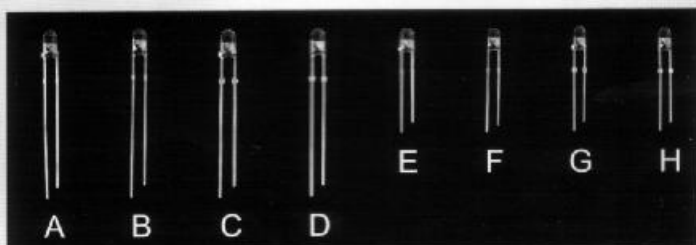
\*5 Devices are sorted by 5nm wavelength ranges

\*6 Other types please refer to photo and page 7

## Package

Bulk..... 100pieces/bag (Code No.1)  
 Bulk..... 500pieces/bag (Code No.5)  
 Bulk..... 1000pieces /bag (Code No.6)

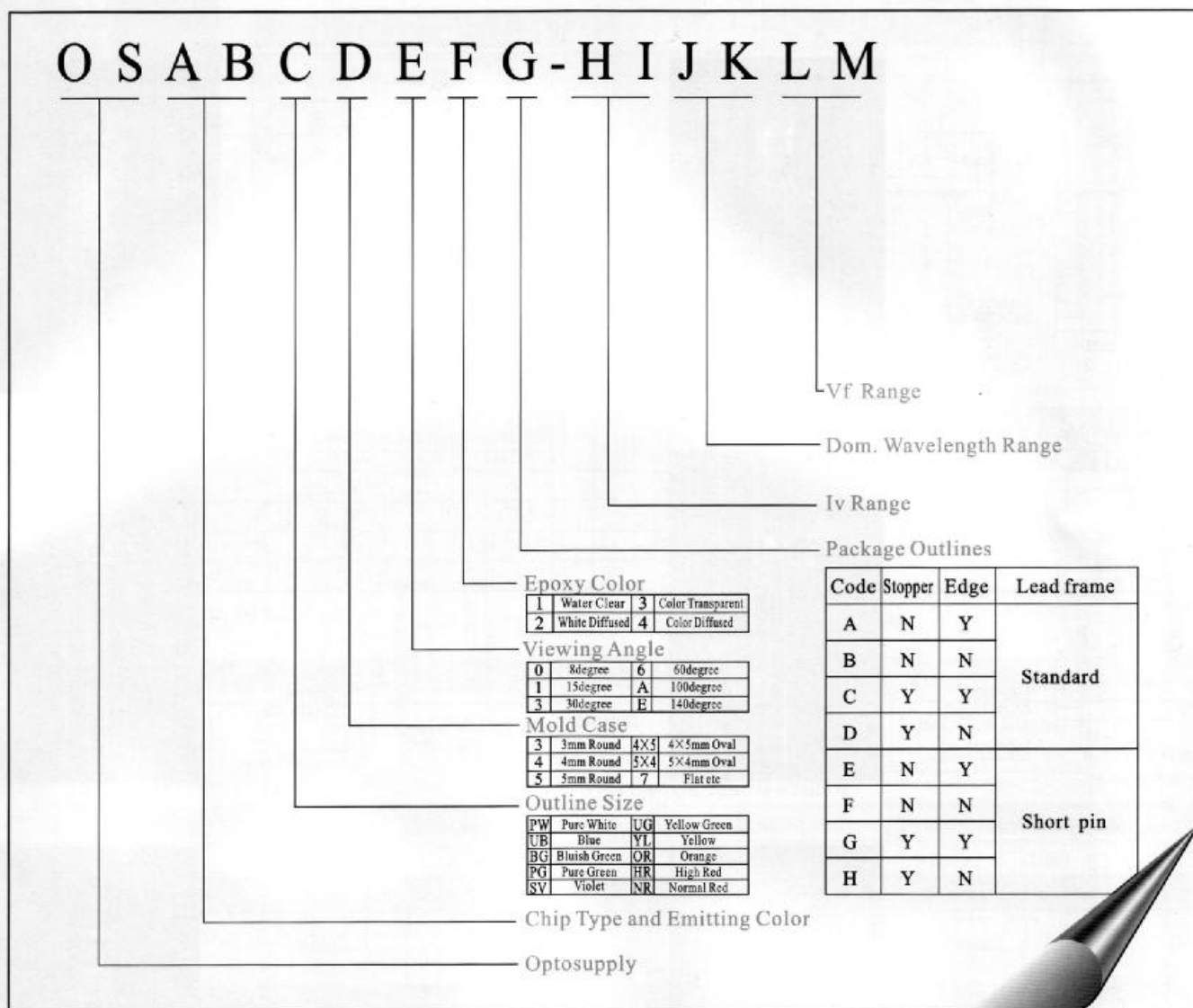
\*6



# LED



## Part Number Formation:



### Intensity Standard

BIN	Range(mcd)	BIN	Range(mcd)
B	20-30	N	2180-3000
C	30-45	O	3000-4200
D	45-68	P	4200-5800
E	68-100	Q	5800-7000
F	100-150	R	7000-8400
G	150-220	S	8400-10000
H	220-330	T	10000-12000
I	330-500	U	12000-14400
J	500-750	V	14400-18000
K	750-1120	W	18000-22000
L	1120-1560	Y	22000-25000
M	1560-2180	Z	25000-30000

### Forward Voltage

BIN	Range(V)	BIN	Range(V)
1	-1.6	A	3.2-3.4
2	1.6-1.8	B	3.4-3.6
3	1.8-2.0	C	3.6-3.8
4	2.0-2.2	D	3.8-4.0
5	2.2-2.4	E	4.0-4.2
6	2.4-2.6	F	4.2-4.4
7	2.6-2.8	G	4.4-4.6
8	2.8-3.0	H	4.6-4.8
9	3.0-3.2	I	4.8-5.0