

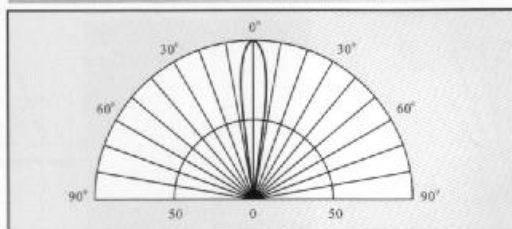
## Mono-Color/ $\Phi$ 5 Series



### Characters

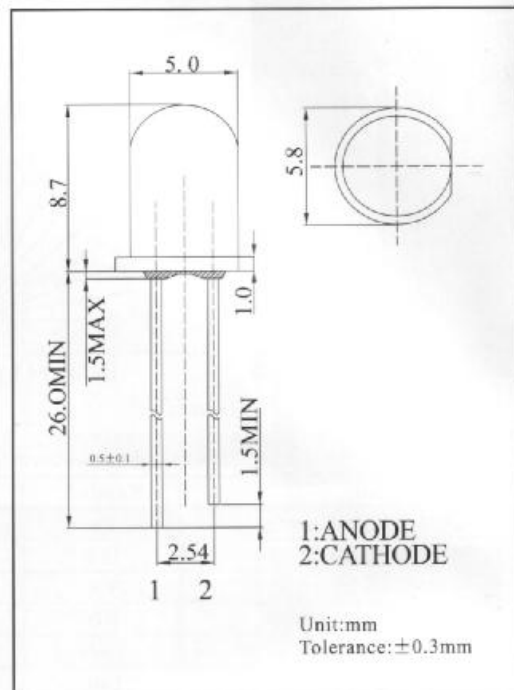
- Viewing angle 15 deg

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	IF	50	mA
Pulse Forward Current	IFP	150*1	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	200	mW
Operating Temperature	Topr	-30~+85	°C
Storage Temperature	Tstg	-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 $\lambda_d$ (nm)*5		Luminous Intensity Iv (mcd)*3		Reverse Current Ir ( $\mu$ A) AT VR=5V		
			Working Current:IF=20mA								
			Typ.	Max.	Typ.	Max.	Typ.	Max.			
OSUG5111A	Yellow Green	Water Clear	2.0	2.4	570	575	1250	2500	<10		
OSYL5111A	Yellow	Water Clear	2.0	2.4	585	595	3000	7000	<10		
OSOR5111A	Orange	Water Clear	2.0	2.4	600	610	3000	7000	<10		
OSHR5111A	High Red	Water Clear	2.0	2.4	625	630	3000	7000	<10		
OSUR5111A	Red	Water Clear	2.0	2.4	635	640	2500	5000	<10		
OSHR5113A	High Red	Color Transparent	2.0	2.4	625	630	2180	5000	<10		
OSUG5114A	Yellow Green	Color Diffused	2.0	2.4	570	575	300	500	<10		
OSYL5114A	Yellow	Color Diffused	2.0	2.4	585	595	1000	2000	<10		
OSOR5114A	Orange	Color Diffused	2.0	2.4	600	610	1000	2000	<10		
OSHR5114A	High Red	Color Diffused	2.0	2.4	625	630	1000	2000	<10		
OSUR5114A	Red	Color Diffused	2.0	2.4	635	640	1000	2000	<10		
OSNG5114A	Normal Green	Color Diffused	2.0	2.4	570	575	50	100	<10		
OSNY5114A	Normal Yellow	Color Diffused	2.0	2.4	585	595	50	100	<10		
OSNR5114A	Normal Red	Color Diffused	2.0	2.4	690	700	50	100	<10		
OSIR5111A	Infrared	Water Clear	1.2	1.7	850	940	30**	80**	<10		

\*2 See table for Luminous Intensity Ranks

\*3 Axial Direction (Luminous Intensity)

\*4 Unit:mW/sr

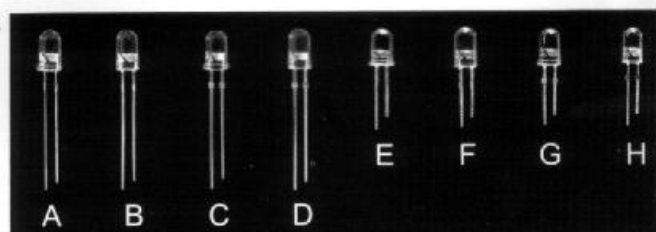
\*5 Devices are sorted by 5nm wavelength ranges

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

### Package

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

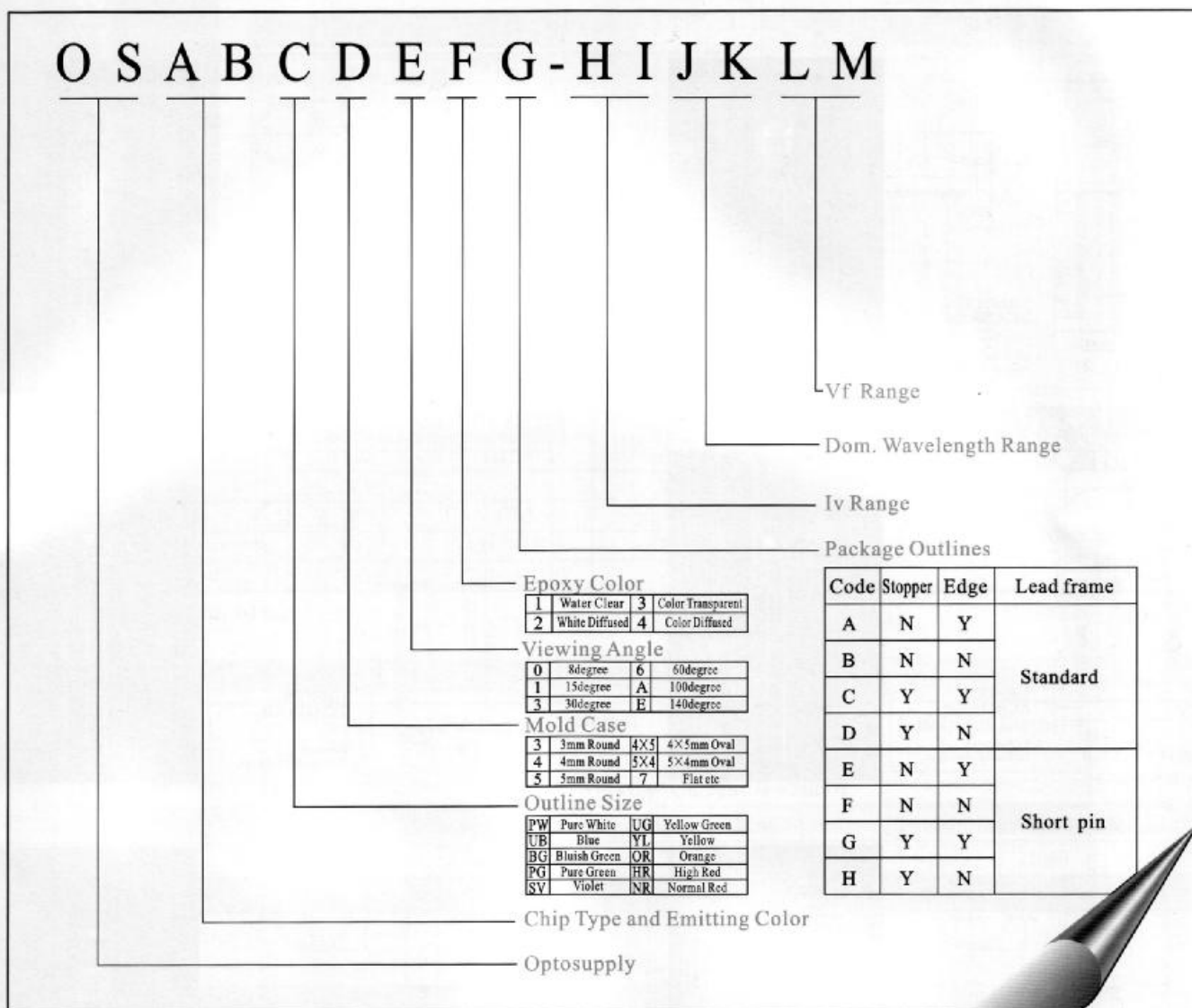
\*6



# 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