

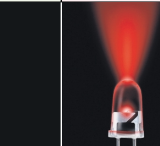


# High Brightness Type $\phi 5$ Circular Type LED Lamps (Focus Type $2\theta$ 1/2:12°)

## SLA-580 Series

Shape	Emitting Surface Dimension (mm)	Blue			Green			Red
		InGaN on SiC			GaP			GaAlAs on GaAs
		468nm			523nm	518nm	563nm	660nm(single)
Circular Type	$\phi 5.0$							
		SLA580BBT	SLA580BCT	SLA580BDT	SLA580EBT	SLA580ECT	SLA580EDT	SLA-580MT

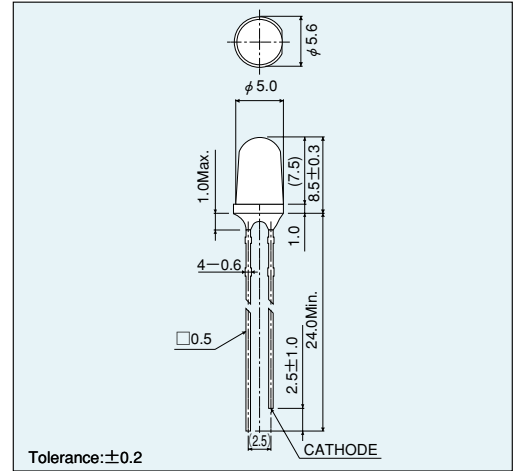
Note) "\*" will be taken out for emitting color B/E series.

### Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation Pd (mW)	Forward current IF (mA)	Peak forward current I <sub>FP</sub> (mA)	Reverse voltage VR (V)	Operating temperature T <sub>opr</sub> (°C)	Storage temperature T <sub>stg</sub> (°C)
SLA580BBT	Blue	120	30	100*1	5	-20 to +80	-30 to +100
SLA580BCT							
SLA580BDT							
SLA580EBT	Green	75	25	60*2	4	-25 to +85	
SLA580ECT							
SLA580EDT							
SLA-580MT	Red	100	50	75*2	4	-25 to +85	
SLA-580LT							

\*1: I<sub>FP</sub> measured under duty  $\leq 1/10$ , 1kHz  
 \*2: I<sub>FP</sub> measured under duty  $\leq 1/5$ , pulse width  $\leq 1$ ms.

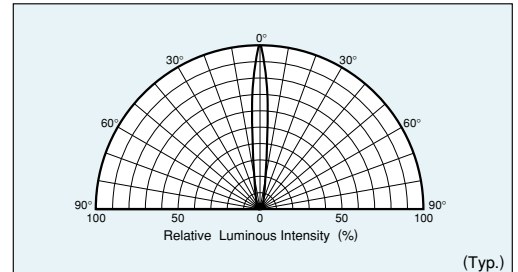
### External Dimensions (Unit : mm)



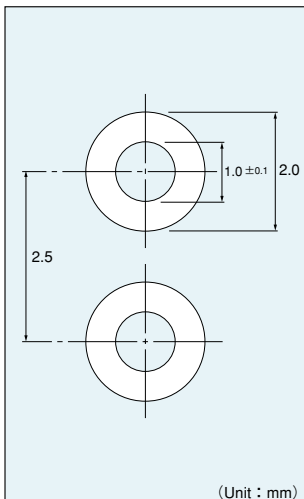
### Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage VF		Reverse current IR		Light wavelength			Brightness Iv			
		Typ. (V)	IF (mA)	Max. ( $\mu$ A)	VR (V)	Peak $\lambda_p$ (nm)	Half-wave $\Delta\lambda$ (nm)	IF (mA)	Min. (mcd)	Typ. (mcd)	IF (mA)	
SLA580BBT	Transparent Clear	3.5	20	100	5	468	26	20	610	1500	20	
SLA580BCT									900	2500		
SLA580BDT									1350	4000		
SLA580EBT		3.8	20	100	5	523	36	20	2000	4500	20	
SLA580ECT									3000	8000		
SLA580EDT									4700	15000		
SLA-580MT		2.3	20	10	4	563	40	200	470	200	470	20
SLA-580LT		1.75	20	100	4	660	25	200	470	200	470	20

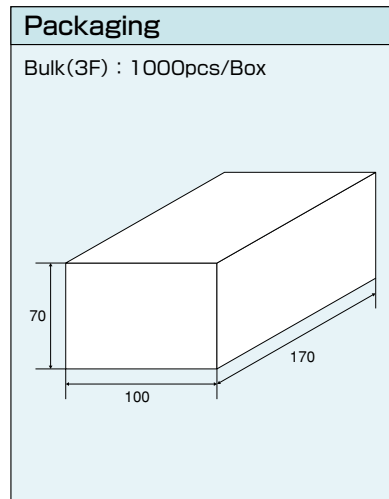
### Directivity



### Recommended Pad Layout

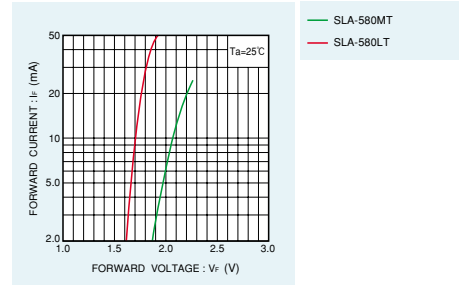
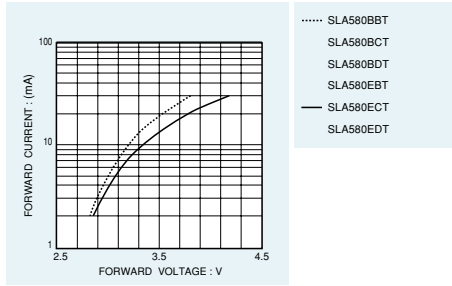


### Packaging Specifications (Unit : mm)

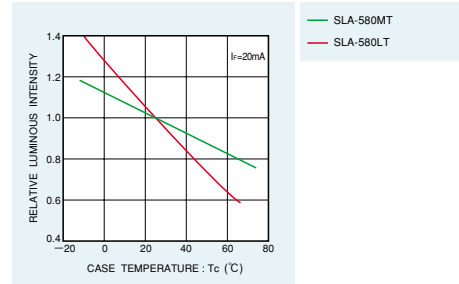
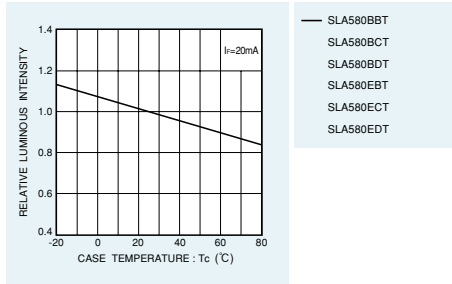


## Electrical Characteristic Curves

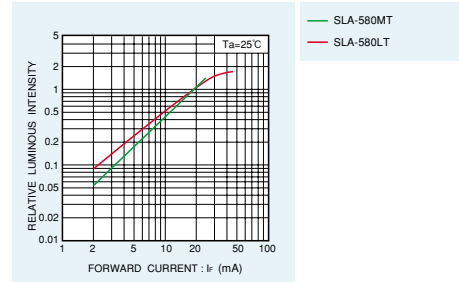
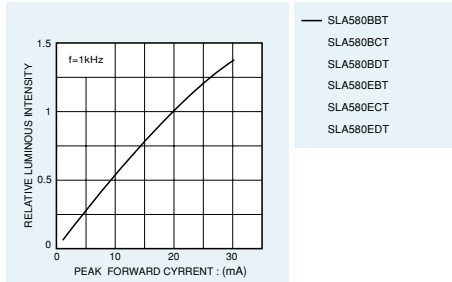
### Forward Current - Forward Voltage



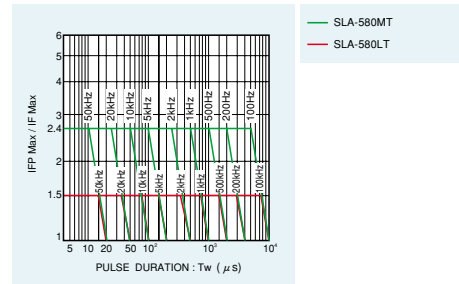
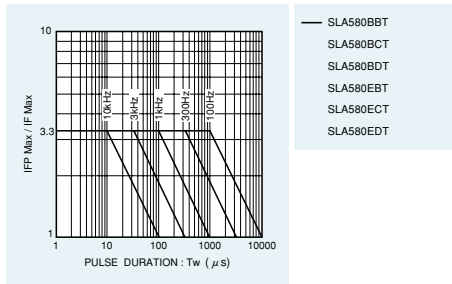
### Relative Luminous Intensity - Case Temperature



### Relative Luminous Intensity - Forward Current



### Ratio of Maximum Tolerable Peak Current - Pulse Duration



### Derating

