# 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				Red			
		InGaN on SiC							GaAlAs on GaAs
		468nm			523nm	518nm		563nm	660nm(single)
Circular Type	φ 5.0	SLA580BBT	SLA580BCT	SLA580BDT	SLA580EBT		SLA580EDT	SLA-580MT	SLA-580LT

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

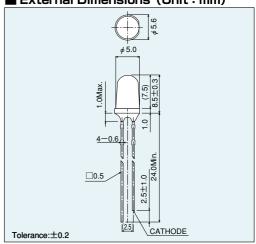
## ■ Absolute Maximum Ratings (Ta=25°C)

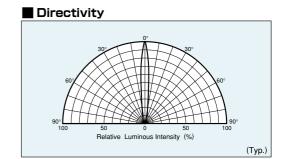
Part No.	Emitting color	Power dissipation Po (mW)	Forward current IF (mA)	Peak forward current IFP (mA)	Reverse voltage V <sub>R</sub> (V)	Operating temperature Topr	Stotage temperature T <sub>stg</sub> (°C)	
SLA580BBT			30					
SLA580BCT	Blue	120		100*1	5			
SLA580BDT						-20 to +80		
SLA580EBT		120				-20 10 +80	-30 to +100	
SLA580ECT								
SLA580EDT	Green							
SLA-580MT		75	25	60*2	4	-25 to +85		
SLA-580LT	Red	100	50	75*2	4	-23 (0 +83		

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

Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current In		Light wavelength  Peak Half-wave  λρ Δλ			Brightness Iv		
		Typ.	lF (mA)	Max. (μA)	VR (V)	Typ.	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
SLA580BBT	Transparent Clear			100	5	468	26	20	610	1500	20
SLA580BCT		3.5	20 100						900	2500	
SLA580BDT		3.5							1350	4000	
SLA580EBT						523	36		2000	4500	
SLA580ECT		3.8				518	35		3000	8000	
SLA580EDT		3.6							4700	15000	
SLA-580MT		2.3		4	563	40		200	470		
SLA-580LT		1.75		100	4	660	25		200	470	

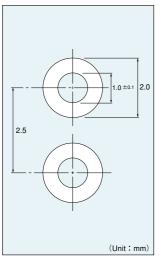
## **■** External Dimensions (Unit: mm)

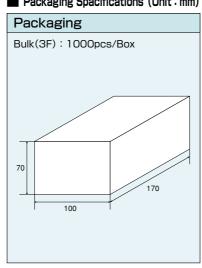




## ■ Recommemded Pad Layout

## ■ Packaging Spacifications (Unit:mm)

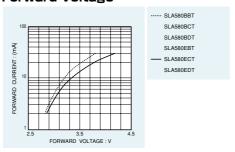


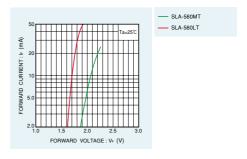


<sup>\*1:</sup> IFP measured under duty ≤1/10,1kHz \*2: IFP measured under duty ≤1/5,pulse width ≤1ms.

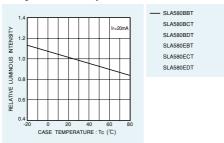
#### **■** Electrical Characteristic Curves

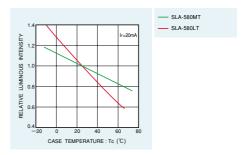
#### Forward Current - Forward Voltage



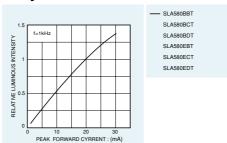


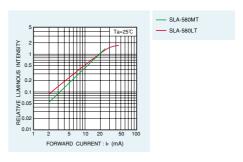
#### Relative Luminous Intensity - Case Temperature



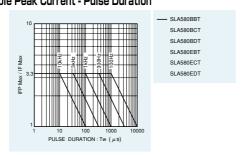


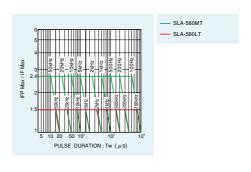
#### **Relative Luminous Intensity - Forward Current**



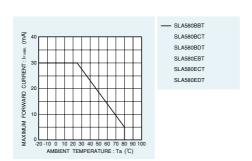


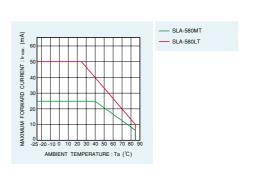
# Ratio of Maximum Tolerable Peak Current - Pulse Duration





## Derating





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