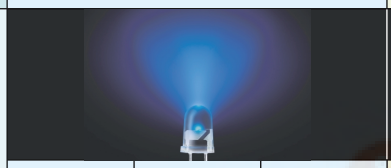
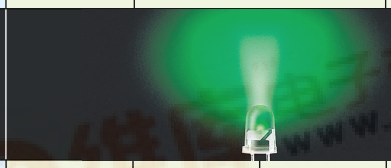
High Brightness Type φ5.0 Circular Type LED Lamps〈Wide Focus Type 2θ 1/2:40°〉

SLA-560 Series

Shape	Emitting Surface Dimension (mm)	Blue			Green				Red
		InGaN on Sic						GaP	GaAlAs on GaAs
		468nm			523nm	518nm		563nm	660nm(single)
Circular Type	φ5.0								
		SLA560BBT	SLA560BCT	SLA560BDT	SLA560EBT	SLA560ECT	SLA560EDT	SLA-560MT	SLA-560LT

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

■ Absolute Maximum Ratings (Ta=25℃)

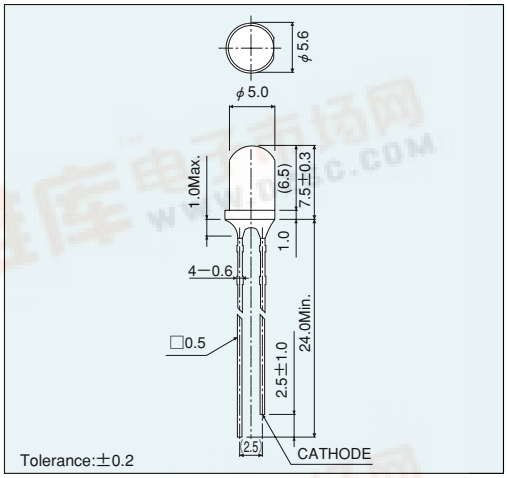
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Stotage temperature T_{stg} (°C)
SLA560BBT	Blue	120	30	100 *1	5	-20 to +80	-30 to +100
SLA560BCT							
SLA560BDT							
SLA560EBT	Green						
SLA560ECT							
SLA560EDT							
SLA-560MT		75	25	60 *2	4	-25 to +85	
SLA-560LT	Red	100	50	75 *2			

＊1:I_{FP} measured under duty ≦1/ 10,1kHz
＊2:I_{FP} measured under duty ≦1/ 5, pulse widht ≦1ms.

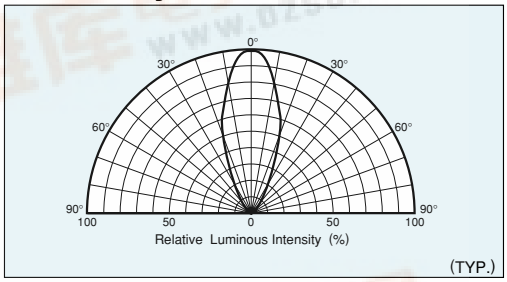
■ Electrical Optical Characteristics (Ta=25℃)

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength Peak λp	Light wavelength Half-wave Δλ		Brightness Iv		
		Typ. (V)	I_F (mA)	Max. (μA)	V_R (V)	Typ. (nm)	Typ. (nm)	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
SLA560BBT	Transparent Clear	3.5	20	100	5	468	26	20	90	220	20
SLA560BCT									200	600	
SLA560BDT									610	2000	
SLA560EBT		3.8				523	36		300	680	
SLA560ECT						518	35		610	2000	
SLA560EDT									2000	5000	
SLA-560MT		2.3		10	4	563	40		42	100	
SLA-560LT		1.75		100		660	25				

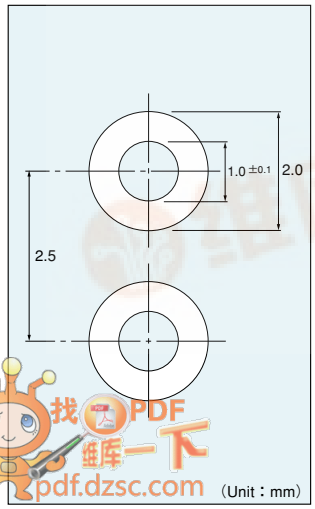
■ External Dimensions (Unit : mm)



■ Directivity



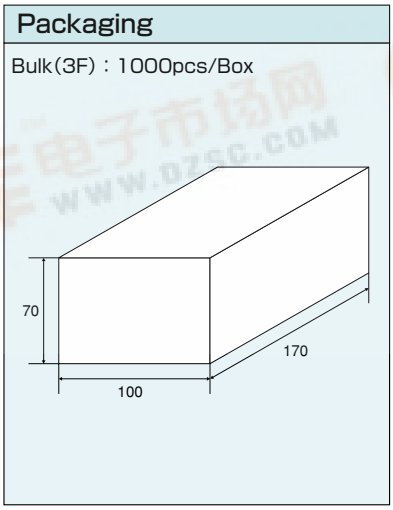
■ Recommemded Pad Layout



■ Packaging Spacifications (Unit : mm)

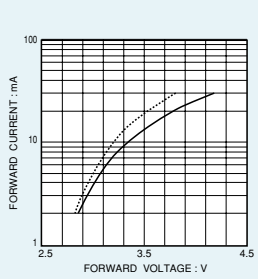
Packaging

Bulk(3F) : 1000pcs/Box

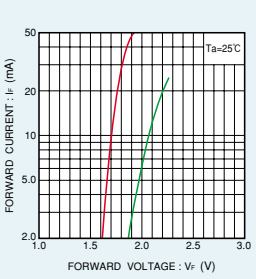


Electrical Characteristic Curves

Forward Current - Forward Voltage

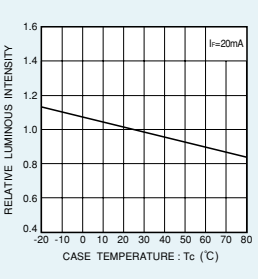


SLA560BBT
SLA560BCT
SLA560BDT
SLA560EBT
SLA560ECT
SLA560EDT

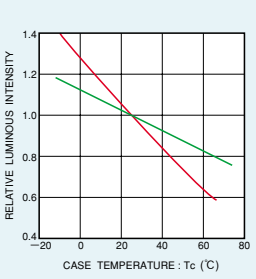


SLA-560MT
SLA-560LT

Relative Luminous Intensity - Case Temperature

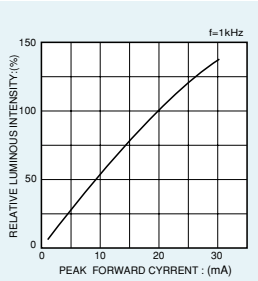


SLA560BBT
SLA560BCT
SLA560BDT
SLA560EBT
SLA560ECT
SLA560EDT

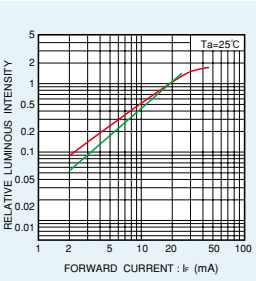


SLA-560MT
SLA-560LT

Relative Luminous Intensity - Forward Current

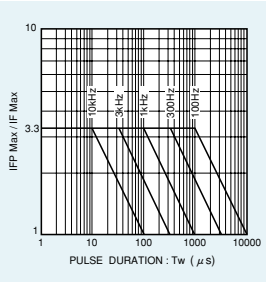


SLA560BBT
SLA560BCT
SLA560BDT
SLA560EBT
SLA560ECT
SLA560EDT

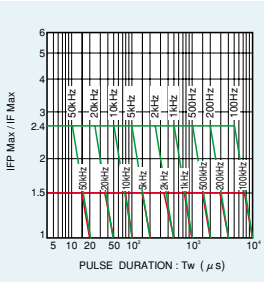


SLA-560MT
SLA-560LT

Ratio of Maximum Tolerable Peak Current - Pulse Duration

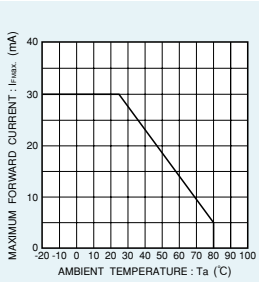


SLA560BBT
SLA560BCT
SLA560BDT
SLA560EBT
SLA560ECT
SLA560EDT

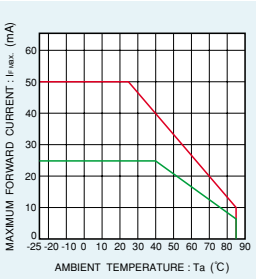


SLA-560MT
SLA-560LT

Derating



SLA560BBT
SLA560BCT
SLA560BDT
SLA560EBT
SLA560ECT
SLA560EDT



SLA-560MT
SLA-560LT

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