

## STANDARD LED LAMPS(ROUND TYPES)

Park No.			Chip			Absolute Maximum				Electro-optical				
Park No.   Material Emitted Color	Package	David NI -				Ratings							Viewing	
Material Emitted   Length   Color				Wave Length	Lens	A 1	D.I						Angle $2 \theta 1/2$	Drawing No.
		rait No.			Appearance					(V)				
BL-BI SIN   GAAP-GAA' Red   655   Red Diffused   90   40   15   50   22   26   3.0										Tvn	Max	Typ	(deg)	
Hambel						(11111)				131	IVIGA	1 ур.		
Hambel	Flangeless 1.0" Lead	BL-B1131N	GaAsP/GaAs/ Red			40	80	40	200	1.7	2.0	2.0		L-025
H_10021311						90	40	15	50					
Plane   Plan							80	30	150	2.0				
						30						1	55	
BLB-B413N   GAAP-GAP / Change   Sis													50	
BLB-B451N   GAAP/GAP/HE/R ed   615														
BL-B4541Q   GaAsP(CaP) Fellow   568   Green Diffused   45   80   30   150   2.0   2.6   60.0							80							
BL-B2141Q   GaPCaP/Coren   568   Green Diffused   30   80   30   150   2.0   2.6   6.00   40   40   40   40   40   40   40							80							
Standard											-	1	40	L-026
1.0   1.0	1.0" Lead													
Bl-B2341Q   GaPGaP/Green   568   Mater Clear   30   80   30   150   2.2   2.6   110.0   35					31gt = 1131									
BL-BK131T   GaP/GaP/GaP/Ri-Eff Green   568   Red Diffused   40   80   40   200   1.7   2.0   4					Water Clear								1 25	
BL-B1131T					174001 01641									
BL-B5131T   Ga/S/Ga/P Bright Red   700   Red Diffused   90   40   15   50   2.0   2.6   6.0   700	1.0" Lead	,												
					Red Diffused									L-027
			U										35	
BL-B3131T   GaASPGaP/ Yellow   585   Yellow Diffused   35   80   30   150   2.1   2.6   6.0					Green Diffused								33	
BL-B2431T   GaP/GaP/ Green   568   Green Trans   30   80   30   150   2.2   2.6   12.0   30													30	
BL-B3431T   GaAsP/GaP/Yellow   585   Yellow Trans   35   80   30   150   2.1   2.6   10.0   30														
BL-B4531U   GaAsP/GaP/Hi-Eff Red   635   Red Diffused   45   80   30   150   2.0   2.6   15.0   BL-B213IU   GaAsP/GaP/ Green   568   Green Diffused   35   80   30   150   2.2   2.6   15.0														
No.   Part	Profile 1.0"Lead												50	
Profile   BL-B3131U   GaAsP/GaP/ Yellow   585   Yellow Diffused   45   80   30   150   2.0   2.6   150   100												<b>!</b>		
Profile   1.0"Lead														L-028
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$														
BL-B331U   GaAsP/GaP /Yellow   585   Yellow Trans   35   80   30   150   2.1   2.6   50.0   BL-B231U   GaAsP/GaP /Green   568   Water Clear   30   80   30   150   2.1   2.6   50.0   45					Ŭ									
BL-B3331U   GaAsP/GaP/Yellow   585   Water Clear   35   80   30   150   2.1   2.6   50.0   45			GaAsP/GaP /Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	50.0		
BL-B3331U   GaAsP/GaP/Yellow   585   Water Clear   35   80   30   150   2.1   2.6   50.0   45		BL-B2331U	GaP/GaP/ Green			30	80	30	150	2.2	2.6	65.0		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			GaAsP/GaP /Yellow		Water Clear	35	80	30	150	2.1	2.6	1		
T-1   Flangeless   1.0"Lead   2.9 ψ   BL-B431W   GaAsP/GaP/ Hi-Eff Red   635   Caren Diffused   30   80   30   150   2.0   2.6   2.0	Flangeless 1.0"Lead	BL-B1131V	GaAsP/GaAs/ Red	655		40	80	40	200	1.7	2.0	6.0		L-029
Stangeless   Stans		BL-B5131V	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	8.0		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		BL-B4531V		635		45	80	30	150	2.0	2.6	20.0	45	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	20.0	- 35	
BL-B2431V   GaP/GaP/ Green   568   Green Trans   30   80   30   150   2.0   2.6   100   35		BL-B3131V	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	15.0		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		BL-B2431V	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	100		
Red Diffused   Flangeless   BL-B5131W   GaP/GaP/ Bright Red   G35   A5   A5   BL-B4531W   GaAsP/GaP/ Hi-Eff Red   G35   A5   A5   BL-B2131W   GaP/GaP/ Green   S68   Green Diffused   G30   B0   GaP/GaP/ Green   S68   Green Diffused   G30   B0   GaP/GaP/ Green   GaP/GaP/ Green   S68   Green Diffused   GaP/GaP/ Green   S68   GaP/GaP/ Green   GaP/GaP/ Green   S68   GaP/GaP/ Green   GaP/GaP/ Green   S68   GaP/GaP/ Green   GaP/GaP		BL-B4631V	GaAsP/GaP/ Hi-Eff Red	635	Red Trans	45	80	30	150	2.0	2.6	100		
Red Diffused   Flangeless   BL-B5131W   GaP/GaP/ Bright Red   G35   A5   A5   BL-B4531W   GaAsP/GaP/ Hi-Eff Red   G35   A5   A5   BL-B2131W   GaP/GaP/ Green   S68   Green Diffused   G30   B0   GaP/GaP/ Green   S68   Green Diffused   G30   B0   GaP/GaP/ Green   GaP/GaP/ Green   S68   Green Diffused   GaP/GaP/ Green   S68   GaP/GaP/ Green   GaP/GaP/ Green   S68   GaP/GaP/ Green   GaP/GaP/ Green   S68   GaP/GaP/ Green   GaP/GaP	Flangeless 1.0"Lead	BL-B1131W	GaAsP/GaAs/ Red	655		40	80	40	200	1.7	2.0	6.0		L-030
Flangeless 1.0"Lead $3.1 \ \psi$			GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	8.0		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		BL-B4531W	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	25.0		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		BL-B2131W	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	25.0		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		BL-B3131W	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	20.0		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		BL-B2431W	GaP/GaP/.Green	568	Green Trans	30	80	30	150	2.0	2.6	100		
$\begin{array}{c} \text{BL-B5141X} & \text{GaP/GaP/Bright Red} & 700 \\ \text{BL-B4541X} & \text{GaAsP/GaP/Hi-Eff Red} & 635 \\ \text{BL-B2141X} & \text{GaP/GaP/Green} & 568 \\ \text{Green Diffused} & 30 & 80 & 30 & 150 & 2.2 & 2.6 & 25.0 \\ \text{BL-B3141X} & \text{GaP/GaP/Green} & 568 & \text{Green Diffused} & 30 & 80 & 30 & 150 & 2.2 & 2.6 & 25.0 \\ \text{BL-B241X} & \text{GaP/GaP/Yellow} & 585 & \text{Yellow Diffused} & 35 & 80 & 30 & 150 & 2.1 & 2.6 & 20.0 \\ \text{BL-B2441X} & \text{GaP/GaP/Hi-Eff Green} & 568 & \text{Green Trans} & 30 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B231Z} & \text{GaAsP/GaP/Orange} & 635 \\ \text{BL-B2331Z} & \text{GaAsP/GaP/Green} & 568 & \text{Red Trans} & 30 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B3331Z} & \text{GaAsP/GaP/Green} & 568 & \text{Red Trans} & 30 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B3331Z} & \text{GaAsP/GaP/Yellow} & 585 & \text{Red Trans} & 30 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} & \text{GaAsP/GaP/Orange} & 635 & \text{Orange Trans} & 45 & 80 & 30 & 150 & 2.0 & 2.6 & 100 \\ \text{BL-B4431Z} $		BL-B4631W	GaAsP/GaP/ Hi-Eff Red	635	Red Trans	45	80	30	150	2.0	2.6	100		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.0"Lead	BL-B1141X	GaAsP/GaAs /Red	655		40	80	40	200	1.7	2.0	6.0		L-031
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		BL-B5141X	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	8.0		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						45	80	30	150				40	
BL-B3141X   GaAsP/GaP/ Yellow   585   Yellow Diffused   35   80   30   150   2.1   2.6   20.0     BL-B2441X   GaP/GaP/ Hi-Eff Green   568   Green Trans   30   80   30   150   2.0   2.6   100   35     T-1   BL-B2331Z   GaAsP/GaP/ Orange   635   Red Trans   30   80   30   150   2.0   2.6   100     1.0"Lead   BL-B3331Z   GaAsP/GaP / Yellow   585   Red Trans   35   80   30   150   2.1   2.6   80.0   35     3.0 φ   BL-B4431Z   GaAsP/GaP / Orange   635   Orange Trans   45   80   30   150   2.0   2.6   100     3.0 φ   BL-B4431Z   GaAsP/GaP / Orange   635   Orange Trans   45   80   30   150   2.0   2.6   100     3.0 φ   BL-B4431Z   GaAsP/GaP / Orange   635   Orange Trans   45   80   30   150   2.0   2.6   100     3.0 φ			GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	25.0	_	
BL-B2441X   GaP/GaP/ Hi-Eff Green   568   Green Trans   30   80   30   150   2.0   2.6   100   35				585	Yellow Diffused	35	80	30	150	2.1	2.6	20.0		I
T-1 BL-B2331Z GaP/GaP/ Green 568 Red Trans 30 80 30 150 2.0 2.6 100 1.0"Lead BL-B3331Z GaAsP/GaP / Yellow 585 35 80 30 150 2.1 2.6 80.0 35 BL-B4431Z GaAsP/GaP/ Orange 635 Orange Trans 45 80 30 150 2.0 2.6 100		BL-B2441X		568	Green Trans	30	80	30	150	2.0	2.6	100		
T-1 BL-B2331Z GaP/GaP/ Green 568 Red Trans 30 80 30 150 2.0 2.6 100 1.0"Lead BL-B3331Z GaAsP/GaP / Yellow 585 35 80 30 150 2.1 2.6 80.0 BL-B4431Z GaAsP/GaP/ Orange 635 Orange Trans 45 80 30 150 2.0 2.6 100	T-1	BL-B4331Z	GaAsP/GaP/ Orange	635		45	80	30	150	2.0	2.6	100		L-032
1.0"Lead 3.0 ψ BL-B3331Z GaAsP/GaP / Yellow 585 35 80 30 150 2.1 2.6 80.0 35 L-032 BL-B4431Z GaAsP/GaP / Orange 635 Orange Trans 45 80 30 150 2.0 2.6 100							80	30	150		<del>                                     </del>	100		
$3.0\psi$ BL-B4431Z GaAsP/GaP/ Orange 635 Orange Trans 45 80 30 150 2.0 2.6 100														
	$3.0\phi$													
		BL-B2431Z	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	100		

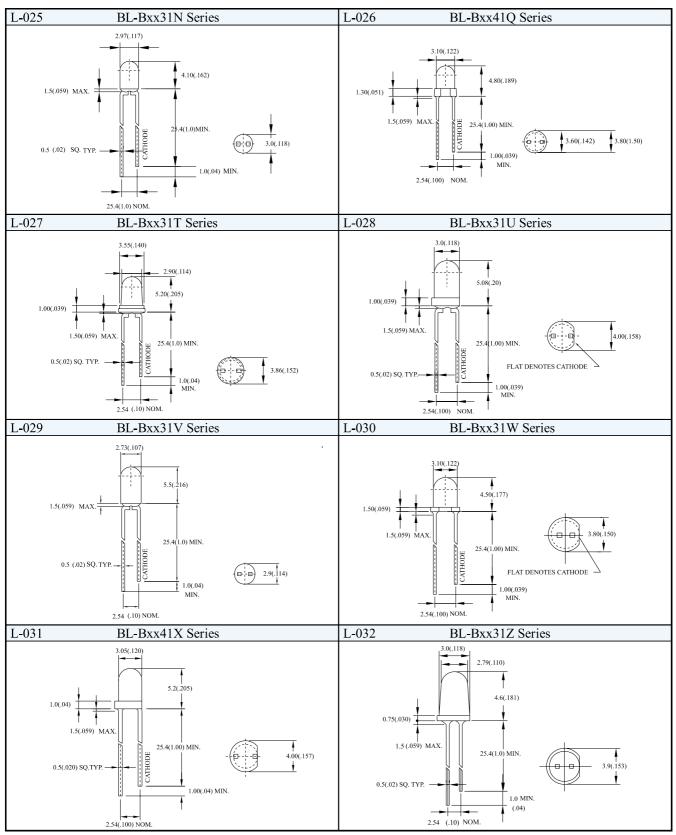
 $Remark : \ 1.Hi\text{-}Eff\,Red\,/\,High\text{-}Efficiency\,Red.$ 

2. Trans / Transparent.

3. 2  $\theta$  1/2 The off-axis angle at which the luminous intensity is half the axial luminous intensity.



## STANDARD LED LAMPS(ROUND TYPES)



Notes: 1.All Dimensions are in millimeters (inches).

2.Tolerance is  $\pm 0.25$ mm (.010").