

Kingbright®

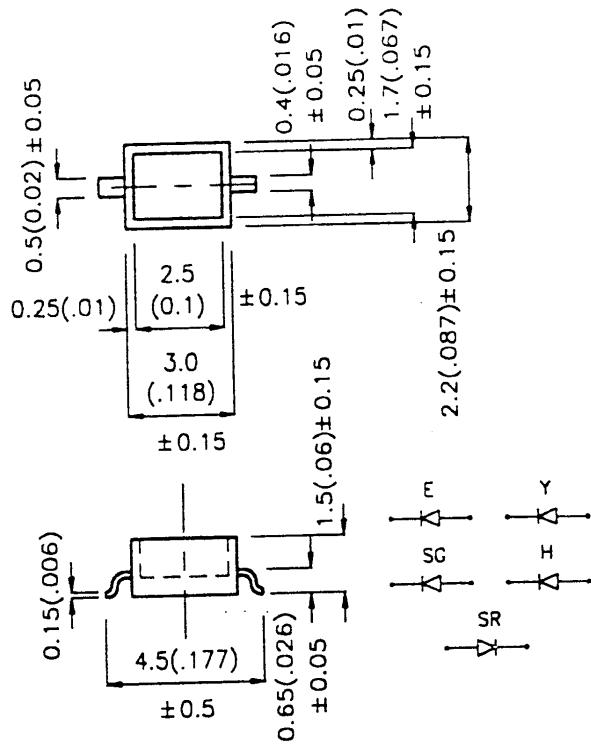
3x2.2mm SINGLE COLOR SURFACE MOUNT LED LAMPS

KA-3022-4.5SF

Features

- RECTANGULAR PACKAGE, 3MM BY 2.2 MM BY 1.5MM THICKNESS.
- WHITE REFLECTOR TO MAXIMIZE REFLECTION OF LIGHT.
- ULTRA-COMPACT TYPE ASSURES SPACE-SAVING.
- HIGH EFFICIENCY & LOW POWER CONSUMPTION.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle 201/2 90°
			Min.	Max.	
KA-3022HT-4.5SF	BRIGHT RED (GaP)	RED TRANSPARENT	1.25	3.2	
KA-3022HC-4.5SF		WATER CLEAR			
KA-3022IT-4.5SF	HIGH EFFICIENCY RED (GaAsP/GaP)	RED TRANSPARENT	12.5	20.0	
KA-3022EC-4.5SF		WATER CLEAR			
KA-3022YT-4.5SF	YELLOW (GaAsP/GaP)	YELLOW TRANSPARENT	5.0	20.0	
KA-3022YC-4.5SF		WATER CLEAR			
KA-3022SRT-A-4.5SF	SUPER BRIGHT RED (GaAlAs)	RED TRANSPARENT	60	90	
KA-3022SRT-B-4.5SF		RED TRANSPARENT	90	200	
KA-3022SRC-A-4.5SF		WATER CLEAR	60	100	
KA-3022SRC-B-4.5SF		WATER CLEAR	100	200	
KA-3022SGT-4.5SF	SUPER BRIGHT GREEN (GaP)	GREEN TRANSPARENT	8.0	20	
KA-3022SGC-4.5SF		WATER CLEAR	12.5	40	

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Bright Red High Efficiency Red Super Bright Green Yellow Super Bright Red	700 625 565 590 660		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Bright Red High Efficiency Red Super Bright Green Yellow Super Bright Red	45 45 30 35 20		nm	IF=20mA
C	Capacitance	Bright Red High Efficiency Red Super Bright Green Yellow Super Bright Red	40 12 45 10 95		pF	VF=0V; f=1MHz
V_F	Forward Voltage	Bright Red High Efficiency Red Super Bright Green Yellow Super Bright Red	2.0 2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5 2.5	V	IF=20mA
I_R	Reverse Current	All	10		uA	VR = 5V

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

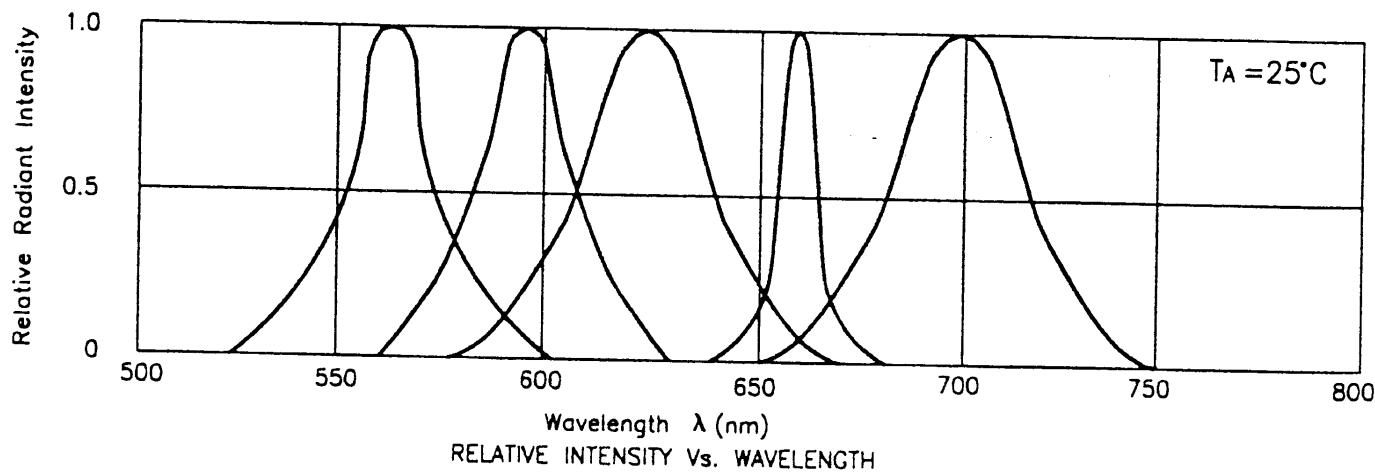
Parameter	Bright Red	High Efficiency Red	Yellow	Super Bright Red	Super Bright Green	Units
Power dissipation	120	105	105	100	105	mW
DC Forward Current	25	30	30	30	25	mA
Peak Forward Current [1]	150	150	150	150	150	mA
Reverse Voltage	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C					
Lead Soldering Temperature [2]	210°C For 3 Seconds					

Notes:

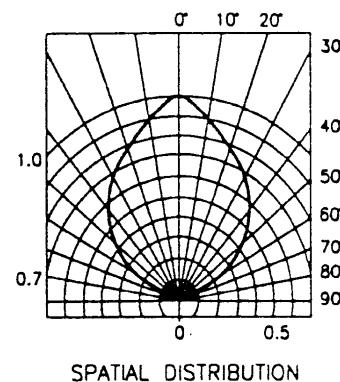
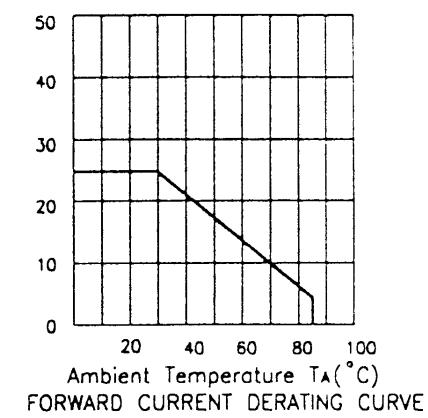
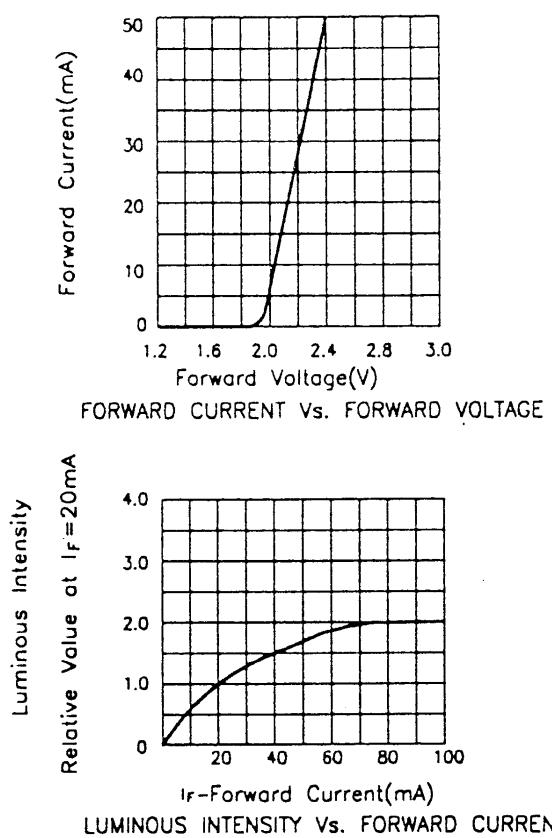
1. $t \leq 10\mu\text{s}$.

2. 4mm below package base.

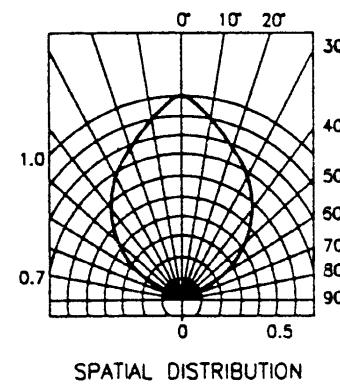
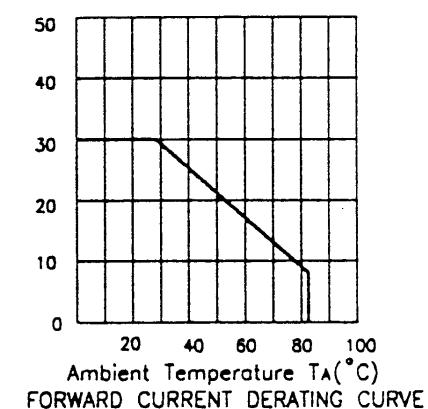
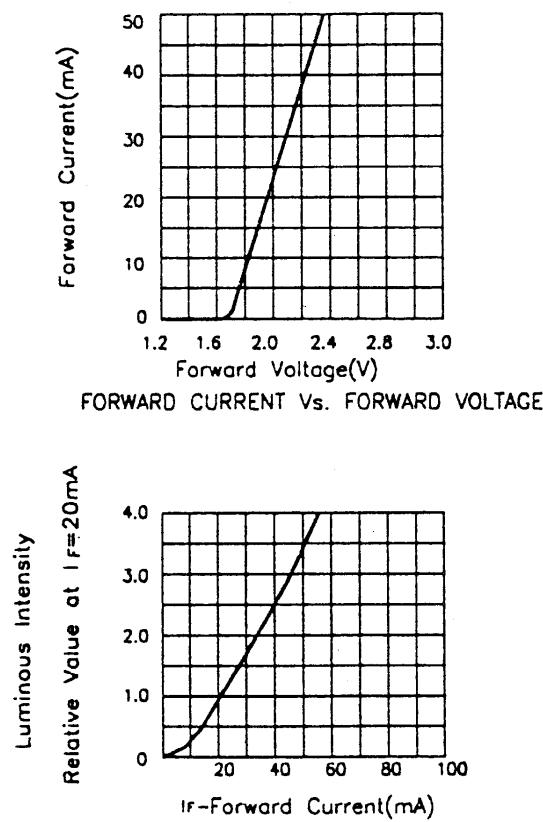
SUPER BRIGHT GREEN Hi. EFFICIENCY YELLOW RED GaAlAs RED BRIGHT RED



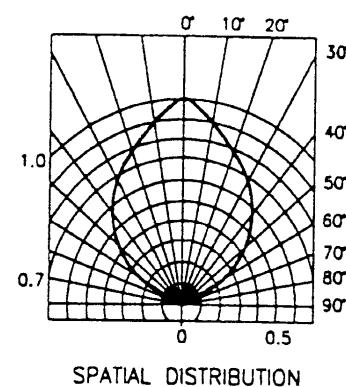
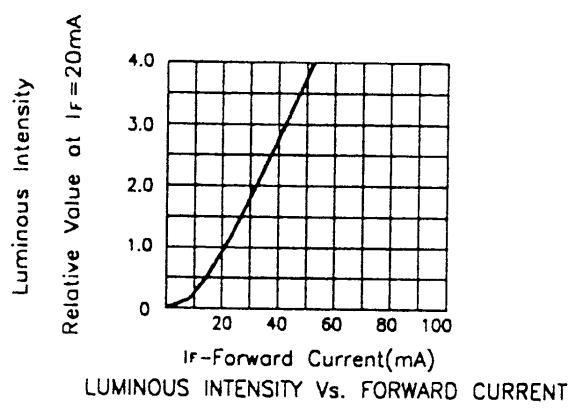
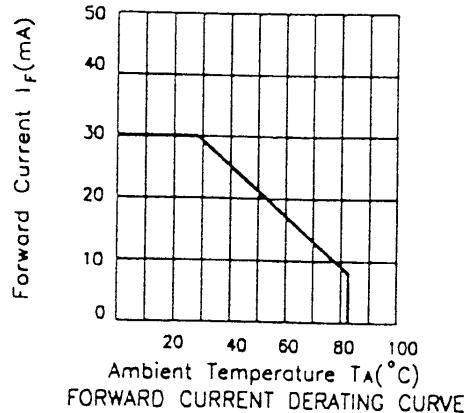
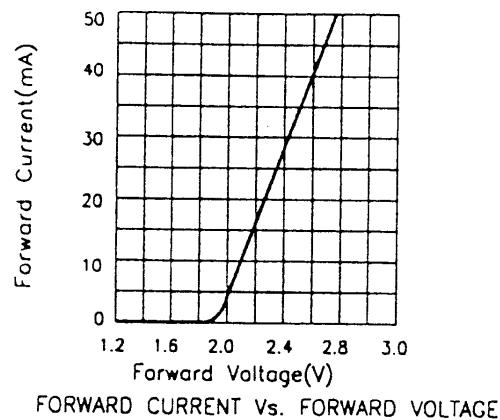
Bright Red KA-3022HT-4.5SF , KA-3022HC-4.5SF



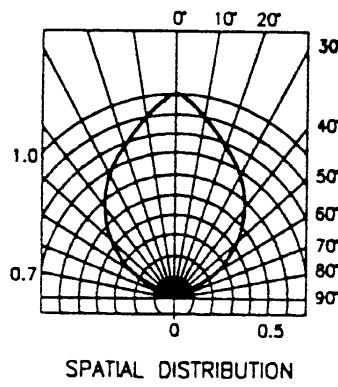
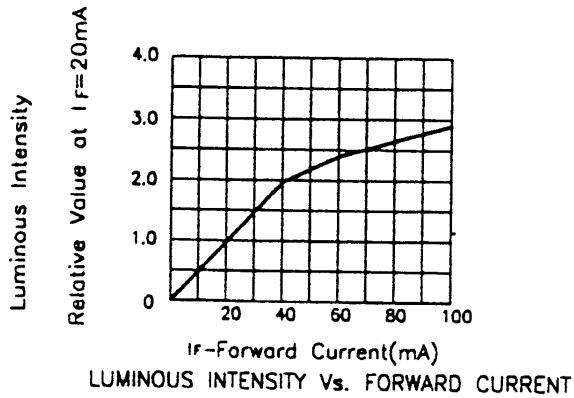
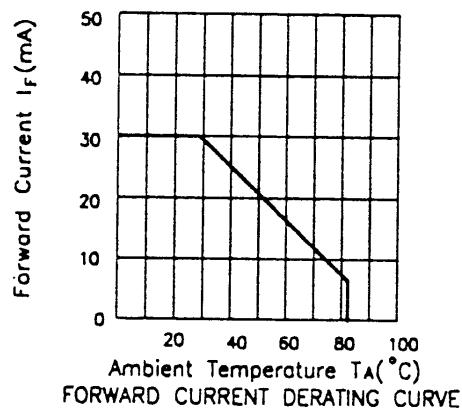
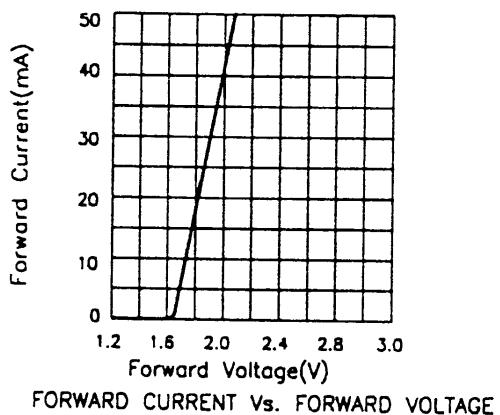
High Efficiency Red KA-3022IT-4.5SF , KA-3022EC-4.5SF



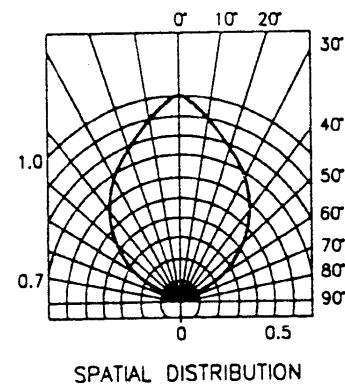
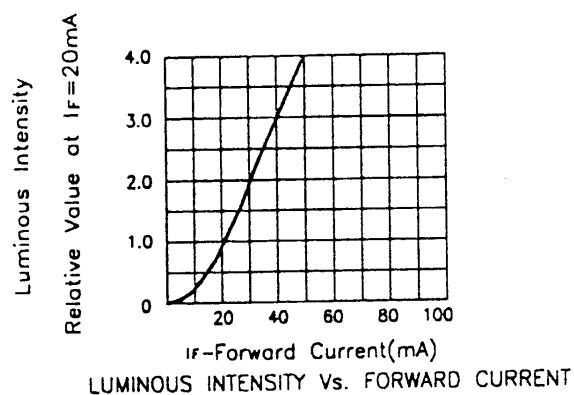
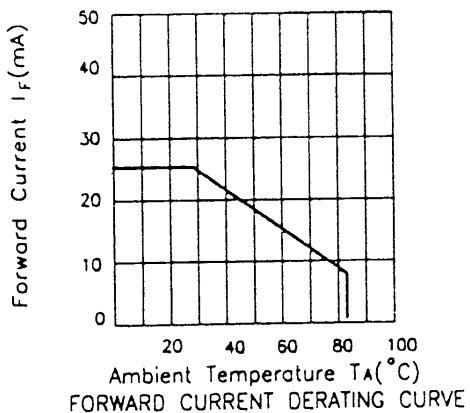
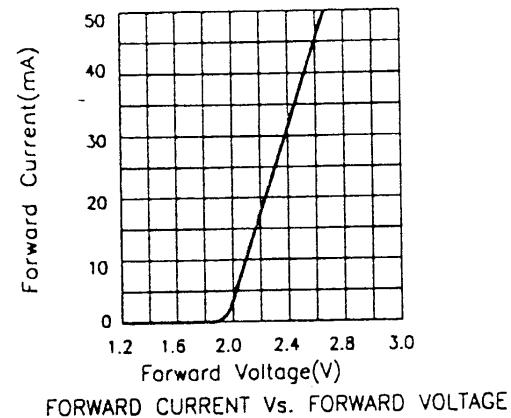
Yellow KA-3022YT-4.5SF , KA-3022YC-4.5SF



Super Bright Red KA-3022SRT-A/B-4.5SF , KA-3022SRC-A/B-4.5SF



Super Bright Green KA-3022SGT-4.5SF , KA-3022SGC-4.5SF



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [kingbright manufacturer](#):

Other Similar products are found below :

[DLC-6EGW](#) [BR-8.24](#) [L-934EW/1GD](#) [AA4040PGS](#) [PSA05-11GWA](#) [BC04-11SYKWA](#) [KB-2600ID](#) [L53YC13](#) [DLC2-6GD](#) [DLC2-6SGD](#)
[SA40-19GWA](#) [WP4060VH/2ID](#) [DC10GWA](#) [DC-05YWA](#) [KA-3535SELZ4S](#) [KB-2755SYKW](#) [SA56-11GWA](#) [DE2CGKD](#) [AA4040SF4S-P22](#)
[BR9.52](#) [L-1384AL/1ID](#) [SA15-11PBWA-A](#) [KB-2855SGW](#) [BA56-11SYKWA](#) [ACSA03-41EWA-F01](#) [L-59GYC](#) [WP7113SF4BT-P22](#) [SA03-11PBWA/A](#) [SC40-19EWA](#) [DA03-11GWA](#) [L-934EB/2ID](#) [WP132WUM/EGW](#) [WP1503CB/GD](#) [WP1384AD/GD](#) [AA3528AVUACGSK](#) [L-964ID](#) [KPBD-3224SURKCGKC](#) [WP1533BQ/GD](#) [SA08-11SURKWA](#) [AM2520SYCK09](#) [L-138A8QMP/1ID](#) [SA23-12EWA](#) [WP934MD/2ID](#)
[KPHBM-2012ETSGTC](#) [KPTR-3216SGC](#) [WP4060VH/2GD](#) [PDC54-12SRWA](#) [WP53MGD](#) [DLC-6MBD](#) [SC40-18EWA](#)