



T-41-23

**STANLEY  
SUPER BRIGHT  
LED LAMP**

**RECTANGLE TYPE  
2x3.2mm TYPE**

**3402K**

**3422K**

**SERIES**

**SELECTION GUIDE**

COLOR	MATERIAL	PART NUMBER
Red	GaAlAs	BR 3402K, 3422K
	GaP	PR 3402K, 3422K
Green	GaP	(E)BG 3402K, 3422K
Yellow	GaP	PY 3402K, 3422K
	GaAsP/GaP	AY 3402K, 3422K
Orange	GaAsP/GaP	AA 3402K, 3422K



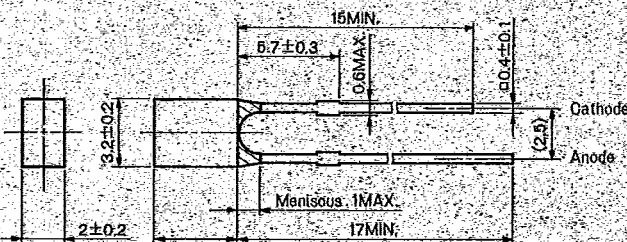
**FEATURES**

- AVAILABLE IN 4 COLORS; RED, GREEN, YELLOW AND ORANGE
- 2mm x 3.2mm LIGHTED AREA
- WATER CLEAR AND COLOR CLEAR
- IDEAL FOR DISPLAYS
- LOW CURRENT DRIVE, DIRECTLY COMPATIBLE WITH IC
- QUICK RESPONSE, ALLOWING PULSED OPERATION
- HIGH RELIABILITY

**DESCRIPTION**

The rectangle Type LEDs are most suitable for the use requiring thin and special configuration. As these rectangular types feature high visibility and four difference colors, these can find wide applications when used in line besides the use for display as single element.

**Package Dimensions—Unit in mm**



**34□2K SERIES**

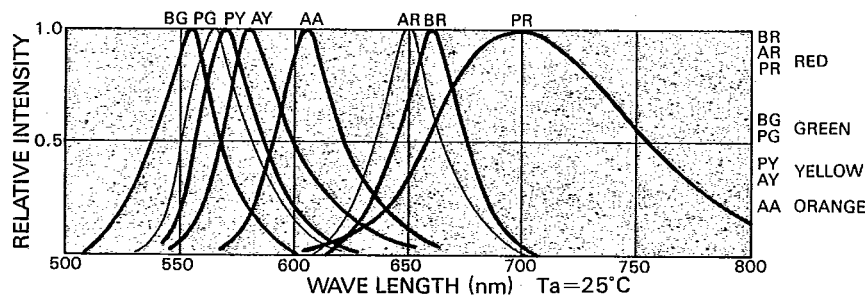
**Absolute Maximum Ratings (Ta=25°C)**

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Parameter	Symbol	Red			Green		Yellow		Orange	Units
		BR	AR	PR	BG	PG	PY	AY	AA	
Forward Current	I <sub>F</sub>	50		30	50		50	50	50	mA
Peak Forward Current	I <sub>FM</sub>	300		100	100		100	100	100	mA
Reverse Voltage	V <sub>R</sub>	4			4		4		4	V
Power Dissipation	P <sub>d</sub>	100		75	125		125	125	125	mW
Operating Temperature	T <sub>opr</sub>	-30~+85			-30~+85		-30~+85		-30~+85	°C
Storage Temperature	T <sub>stg</sub>	-30~+100			-30~+100		-30~+100		-30~+100	°C
Lead Soldering Temperature		240°C for 3 seconds (3.0mm from body)								

**Electro-Optical Characteristics (Ta=25°C)**

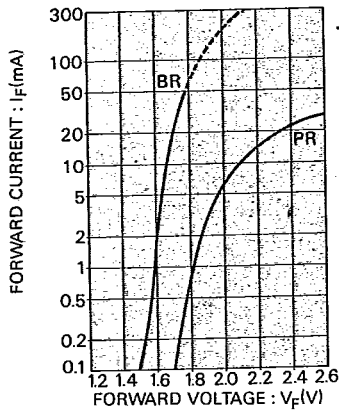
Type No.	Chip		Lens	I <sub>v</sub> (mcd)		at I <sub>F</sub> (mA)	Peak Wave Length λ <sub>p</sub> (nm)	Spectral Line Half Width Δλ(nm)	V <sub>F</sub> (V)		at I <sub>F</sub> (mA)	at V <sub>R</sub> 4V I <sub>R</sub> (μA)	Capacitance Col(pF)
	Material	Emitted Color		Min.	Typ.				Typ.	Max.			
BR3402K(22K)	GaAlAs	Red	W.C (C.C)	0.8	1.6	20	660	30	1.7	2.0	20	100	50
PR3402K(22K)	GaP	Red	W.C (C.C)	0.2	0.4	10	700	100	2.1	2.5	10	100	70
BG3402K(22K)	GaP	Green	W.C (C.C)	0.3	0.6	20	555	30	2.1	2.5	20	100	50
E BG3402K(22K)	GaP	Green	W.C (C.C)	0.6	0.9	20	555	30	2.1	2.5	20	100	50
PY3402K(22K)	GaP	Yellow	W.C (C.C)	1.0	2.0	20	570	30	2.1	2.5	20	100	40
AY3402K(22K)	GaAsP/GaP	Yellow	W.C (C.C)	0.8	1.6	20	580	30	2.2	2.5	20	100	40
AA3402K(22K)	GaAsP/GaP	Orange	W.C (C.C)	0.8	1.6	20	605	30	2.2	2.5	20	100	50



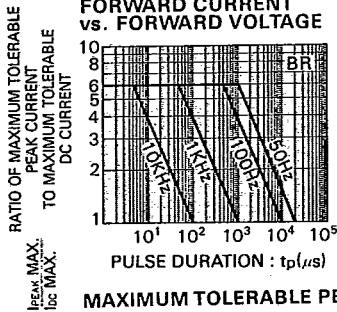
RELATIVE INTENSITY vs. WAVE LENGTH



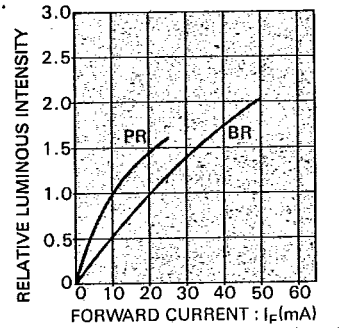
**RED**



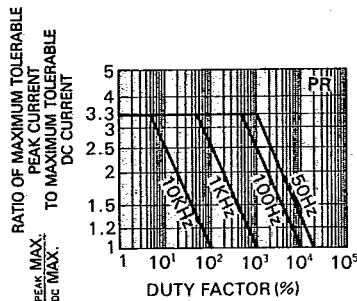
**FORWARD CURRENT vs. FORWARD VOLTAGE**



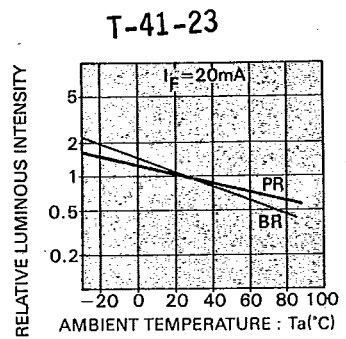
**MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION**



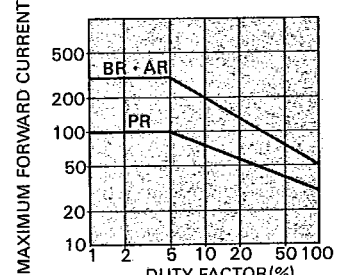
**RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT**



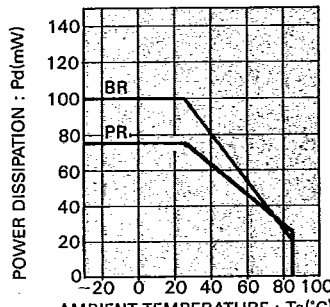
**MAXIMUM FORWARD CURRENT vs. DUTY FACTOR**



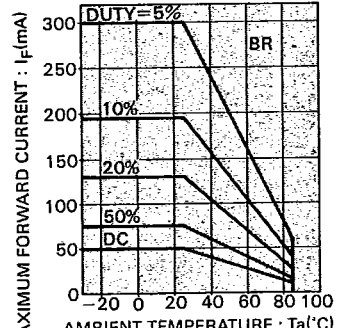
**RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE**



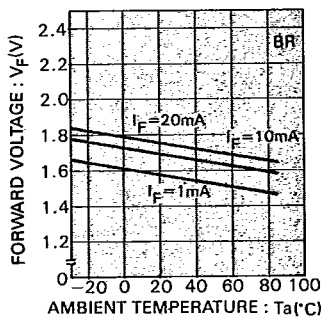
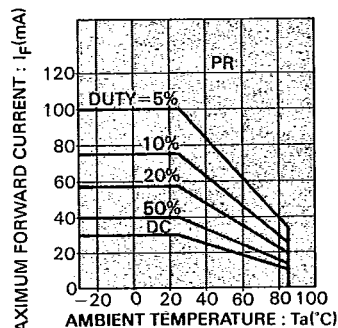
**MAXIMUM FORWARD CURRENT vs. DUTY FACTOR**



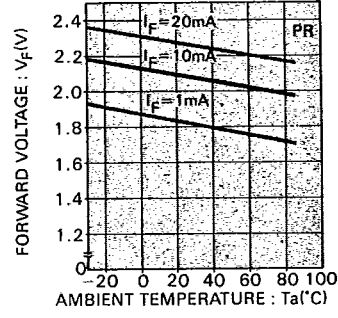
**POWER DISSIPATION vs. AMBIENT TEMPERATURE**



**MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE**



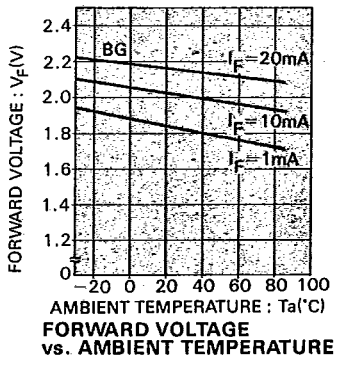
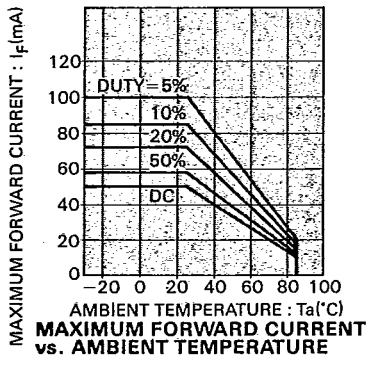
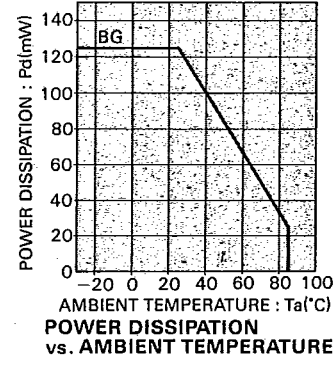
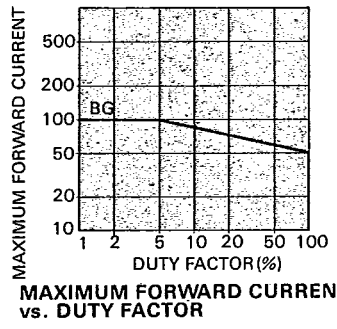
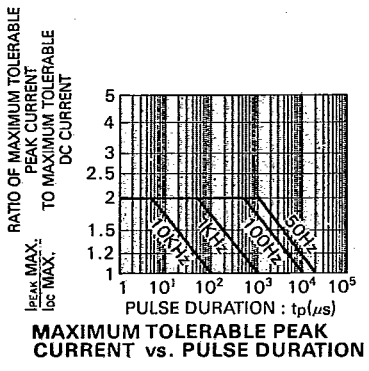
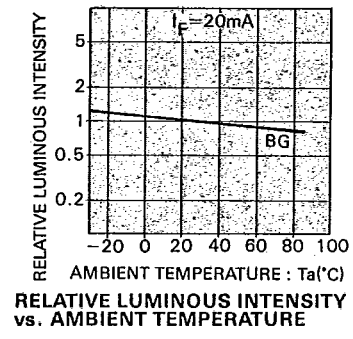
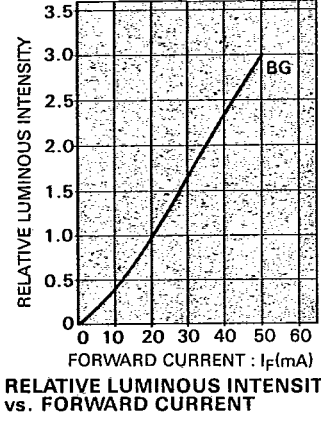
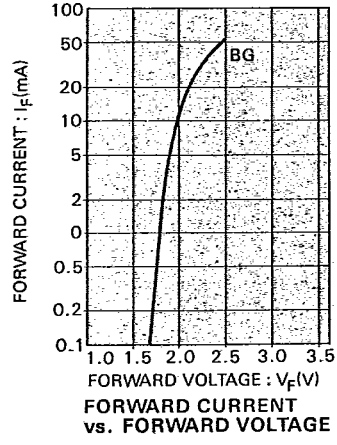
**FORWARD VOLTAGE vs. AMBIENT TEMPERATURE**



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**GREEN**

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**YELLOW**

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