

STANLEY

STANLEY
SUPER BRIGHT
LED LAMPRECTANGLE TYPE
2×2mm TYPE

2641K

2651K

SERIES

T-41-23

SELECTION GUIDE

COLOR	MATERIAL	PART NUMBER
Red	GaP	PR 2641K, 2651K
Green	GaP	BG 2641K, 2651K
	GaP	PG 2651KY
Yellow	GaP	PY 2641K, 2651K
	GaAsP/GaP	AY 2641K, 2651K
Orange	GaAsP/GaP	AA 2641K, 2651K

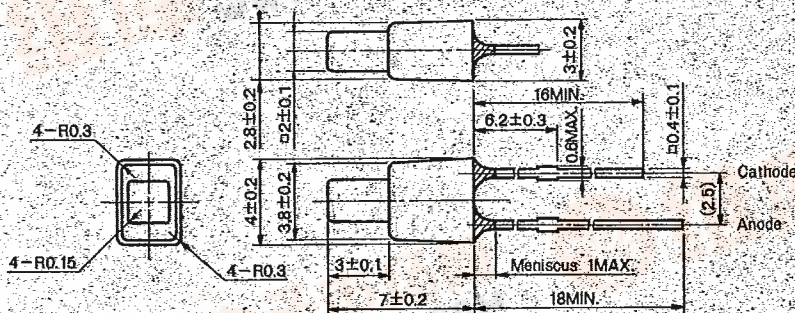
FEATURES

- AVAILABLE IN 4 COLORS; RED, GREEN, YELLOW AND ORANGE
- 2 x 2mm FLAT TOP, STEPPED SQUARE PACKAGE
- DIFFUSED TYPE
- IDEAL FOR DISPLAYS
- LOW CURRENT DRIVE, DIRECTLY COMPATIBLE WITH IC
- QUICK RESPONSE, ALLOWING PULSED OPERATION
- HIGH RELIABILITY

DESCRIPTION

Stepped construction permits easy installation. Suited especially for small displays. These can find wide applications when used in line besides the use for display as single element.

Package Dimensions—Unit in mm



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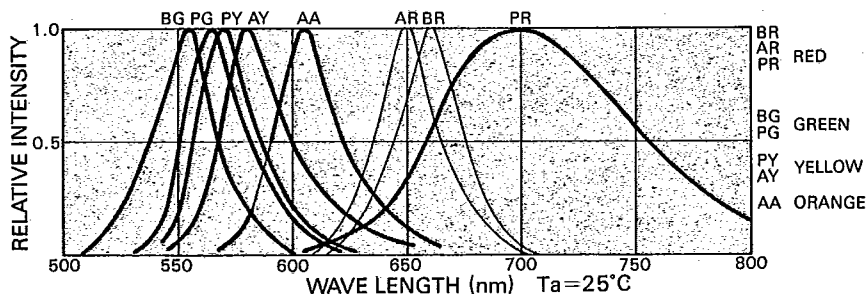
Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Red			Green		Yellow		Orange	Units
		BR	AR	PR	BG	PG	PY	AY	AA	
Forward Current	I _F			30	50	50	50	50	50	mA
Peak Forward Current	I _{FM}			100	100	100	100	100	100	mA
Reverse Voltage	V _R	4			4		4		4	V
Power Dissipation	P _d			75	125	125	125	125	125	mW
Operating Temperature	T _{opr}	-30~+85			-30~+85		-30~+85		-30~+85	°C
Storage Temperature	T _{stg}	-30~+100			-30~+100		-30~+100		-30~+100	°C
Lead Soldering Temperature		260°C for 5 seconds (3.0mm from body)								

Electro-Optical Characteristics (Ta=25°C)

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Type No.	Chip		Lens	I _v (mcd)		at I _F (mA)	Peak Wave Length λ _p (nm)	Spectral Line Half Width Δλ(nm)	V _F (V)		at I _F (mA)	at V _R 4V I _R (μA)	Capacitance Co(pF)
	Material	Emitted Color		Min.	Typ.				Typ.	Max.			
PR2651K(41K)	GaP	Red	C.S.D (W.S.D)	0.3	0.5	10	700	100	2.1	2.5	10	100	70
BG2651K(41K)	GaP	Green	C.S.D (W.S.D)	0.4	0.8	20	555	30	2.1	2.5	20	100	50
PG2651KY	GaP	Green	C.S.D	1.5	3.0	20	565	30	2.1	2.5	20	100	40
PY2651K(41K)	GaP	Yellow	C.S.D (W.S.D)	2.0	4.0	20	570	30	2.1	2.5	20	100	40
AY2651K(41K)	GaAsP/GaP	Yellow	C.S.D (W.S.D)	1.0	2.0	20	580	30	2.2	2.5	20	100	40
AA2651K(41K)	GaAsP/GaP	Orange	C.S.D (W.S.D)	1.0	2.0	20	605	30	2.2	2.5	20	100	50

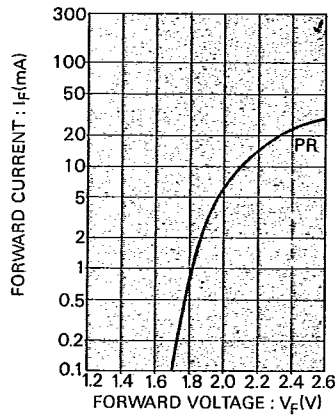


RELATIVE INTENSITY vs. WAVE LENGTH

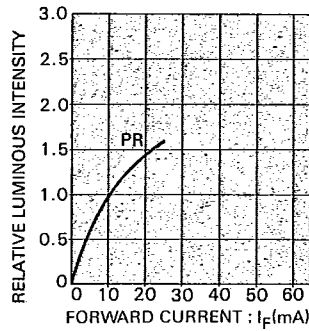


RED

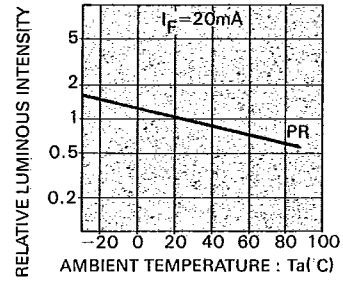
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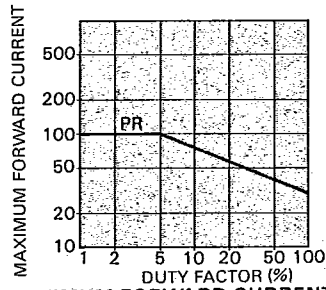
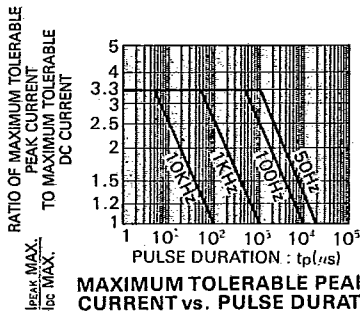
FORWARD CURRENT vs. FORWARD VOLTAGE



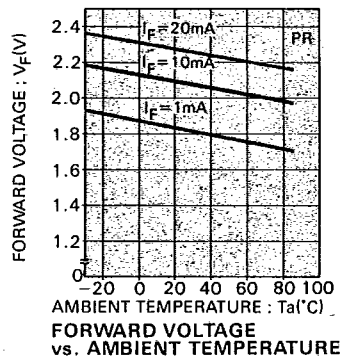
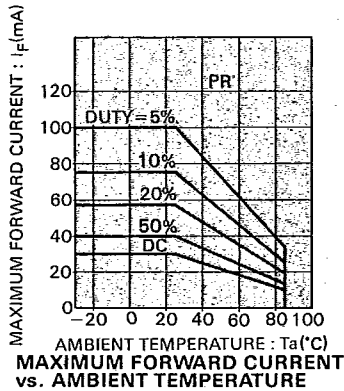
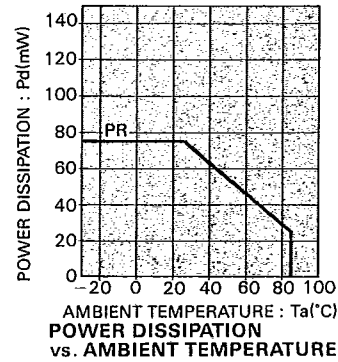
RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT



RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE



MAXIMUM FORWARD CURRENT vs. DUTY FACTOR

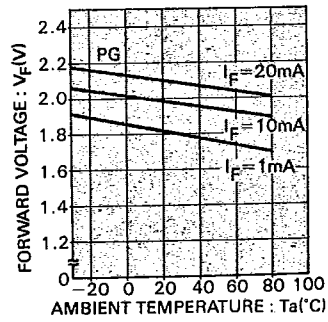
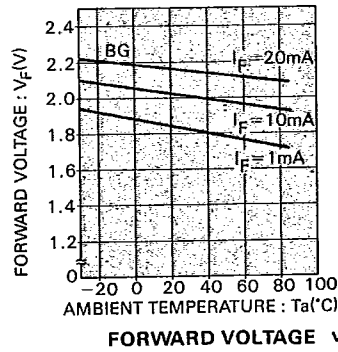
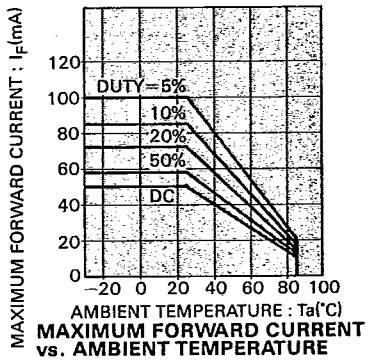
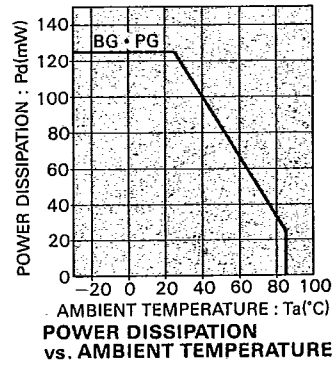
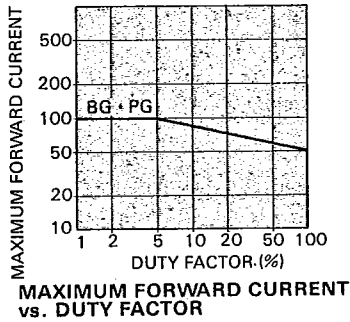
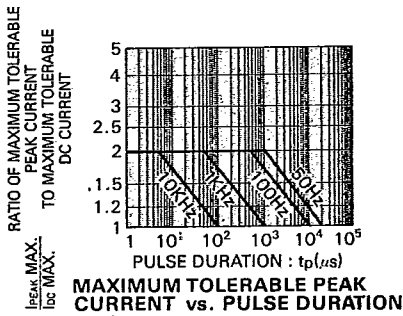
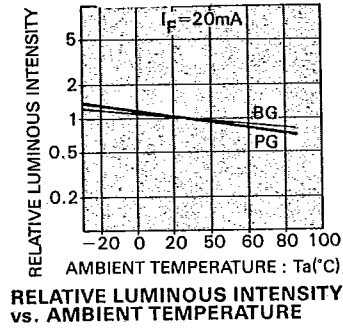
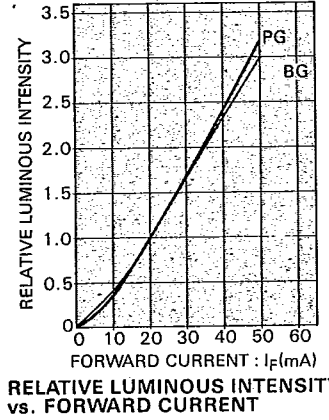
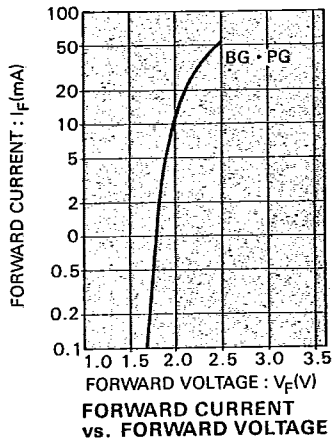


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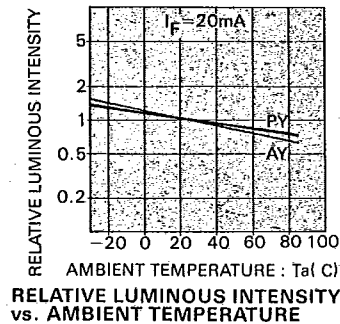
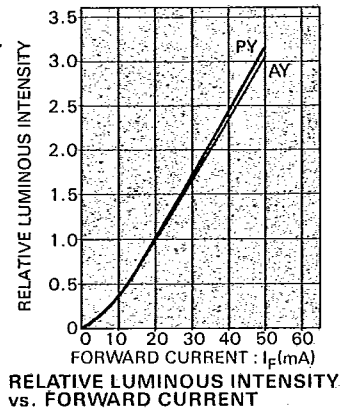
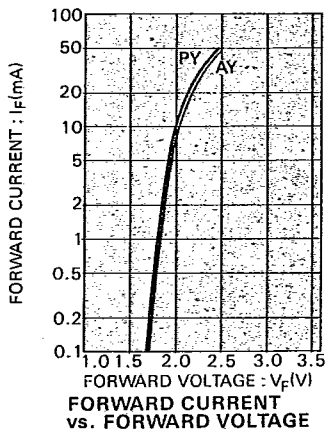
GREEN

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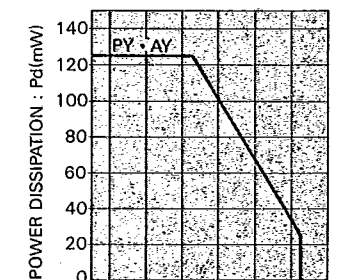
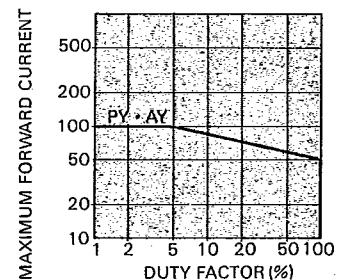
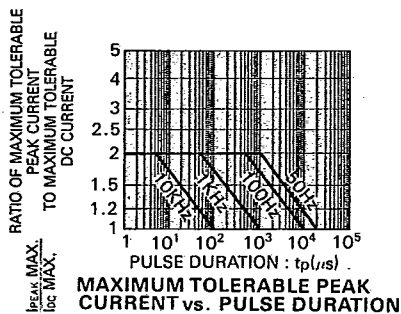
YELLOW

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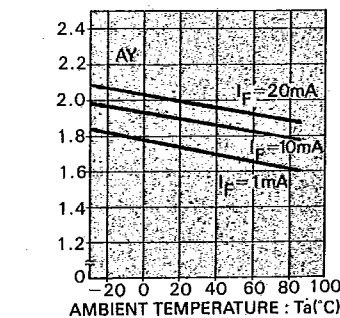
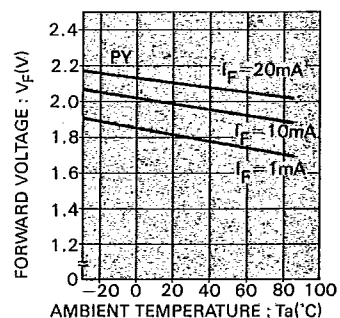
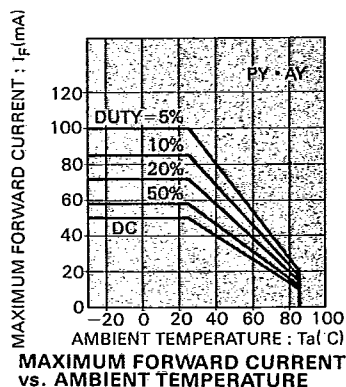
RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT

RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE



MAXIMUM FORWARD CURRENT vs. DUTY FACTOR

POWER DISSIPATION vs. AMBIENT TEMPERATURE



FORWARD VOLTAGE vs. AMBIENT TEMPERATURE

FORWARD VOLTAGE vs. AMBIENT TEMPERATURE

ORANGE

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