

STANLEY

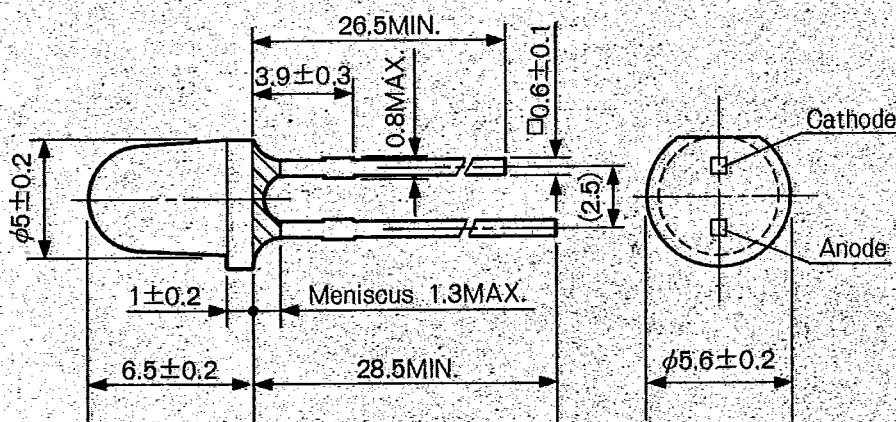
T-41-21

**STANLEY
SUPER BRIGHT
LED LAMP** $\phi 5(T-1\frac{3}{4})$ TYPE**5763X/5773X****SERIES****SELECTION GUIDE**

COLOR	MATERIAL	PART NUMBER
Red	GaAlAs	BR 5763X, 5773X
	GaAsP/GaP	MVR 5763X, 5773X
	GaP	MPR 5763X, 5773X
Green	GaP	MBG 5763X, 5773X
		MPG 5763X, 5773X
Yellow	GaP	MPY 5763X, 5773X
	GaAsP/GaP	MAY 5763X, 5773X
Orange	GaAsP/GaP	MAA 5763X, 5773X

DESCRIPTION

This series was developed for use in back-lighting of keyboards and similar devices. It is housed in the 5mm diameter molded packages and wide viewing angle has been achieved. Used in combination with a reflector, these products can be employed for surface illumination. Ideal for keyboards and office automation

Package Dimensions—Unit in mm

■ Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Red			Green		Yellow		Orange	Units
		BR	PR	VR	BG	PG	PY	AY	AA	
Forward Current	I _F	50	30	30	25	25	30	30	25	mA
Peak Forward Current	I _{FM}	300	75	75	60	60	75	75	60	mA
Reverse Voltage	V _R	4			4		4		4	V
Power Dissipation	P _d	100	75	75	70	70	85	85	70	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)								

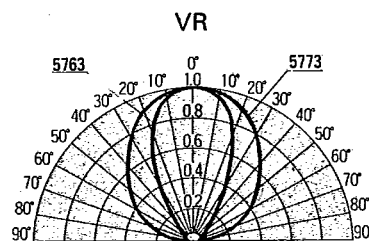
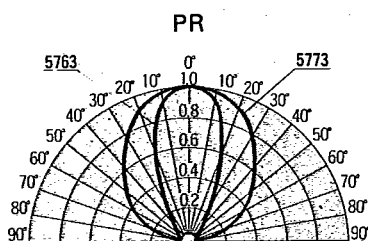
■ Electro-Optical Characteristics (Ta=25°C) T-41-21

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.			
BR5763X(73)	GaAlAs	Red	P.C (P.D)	15(6)	30(12)	20	660	30	1.7	2.0	20	20	50
MPR5763X(73)	GaP	Red	P.C (P.D)	2(1)	4(2)	10	700	100	2.1	2.8	10	20	40
MVR5763X(73)	GaAsP/GaP	Red	P.C (P.D)	10(5)	20(10)	20	630	30	2.0	2.8	20	20	10
MBG5763X(73)	GaP	Green	P.C (P.D)	5(1.5)	10(3)	20	555	30	2.1	2.8	20	20	25
MPG5763(73)	GaP	Green	P.C (P.D)	10(5)	20(10)	20	560	30	2.1	2.8	20	20	25
MPY5763X(73)	GaP	Yellow	P.C (P.D)	15(6)	30(12)	20	570	30	2.1	2.8	20	20	20
MAY5763X(73)	GaAsP/GaP	Yellow	P.C (P.D)	10(5)	20(10)	20	580	30	2.2	2.8	20	20	10
MAA5763X(73)	GaAsP/GaP	Orange	P.C (P.D)	10(5)	20(10)	20	605	30	2.2	2.8	20	20	10



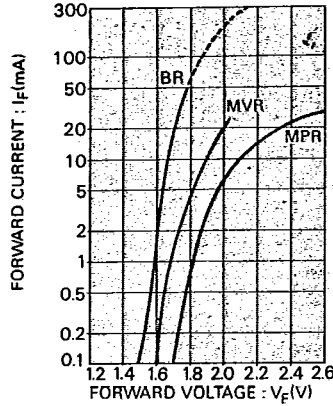
■ RED

■ SPATIAL DISTRIBUTION



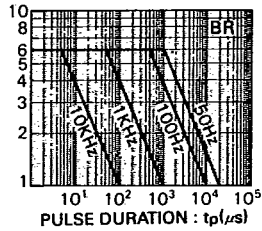
RED

T-41-21

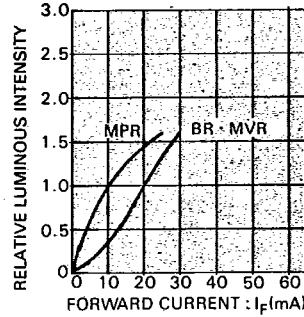


FORWARD CURRENT vs. FORWARD VOLTAGE

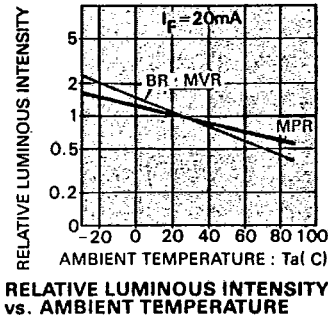
RATIO OF MAXIMUM TOLERABLE
PEAK CURRENT
TO MAXIMUM TOLERABLE
DC CURRENT



MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION

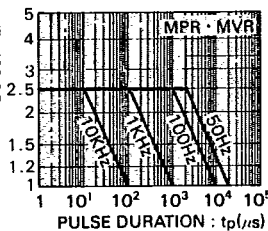


RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT

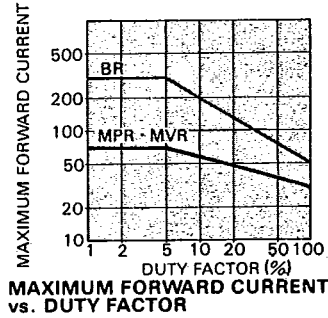


RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE

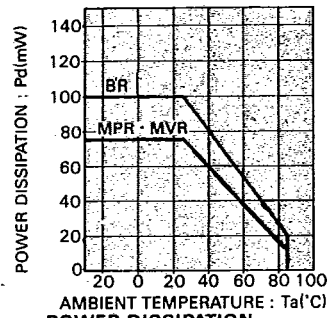
RATIO OF MAXIMUM TOLERABLE
PEAK CURRENT
TO MAXIMUM TOLERABLE
DC CURRENT



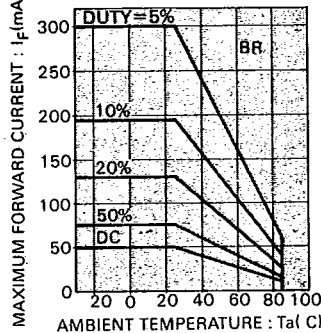
MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION



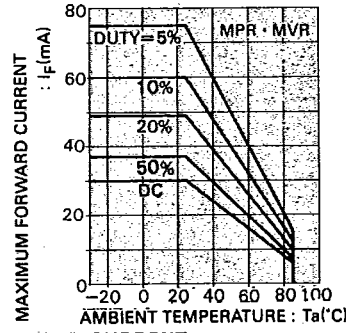
MAXIMUM FORWARD CURRENT vs. DUTY FACTOR



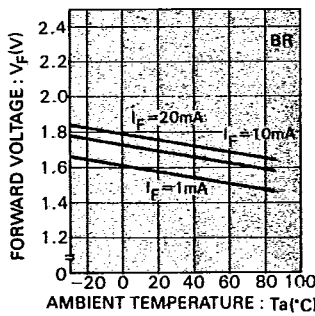
POWER DISSIPATION vs. AMBIENT TEMPERATURE



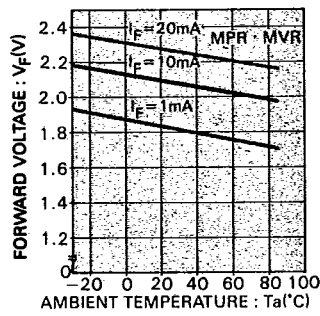
MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE



MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE

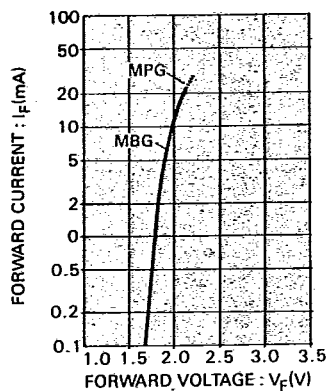


FORWARD VOLTAGE vs. AMBIENT TEMPERATURE



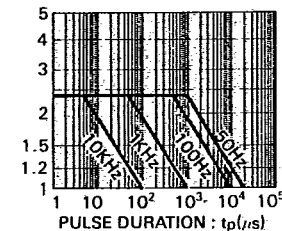
■ GREEN

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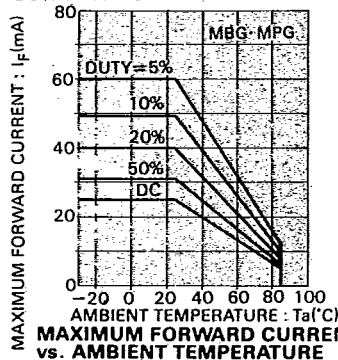


FORWARD CURRENT vs. FORWARD VOLTAGE

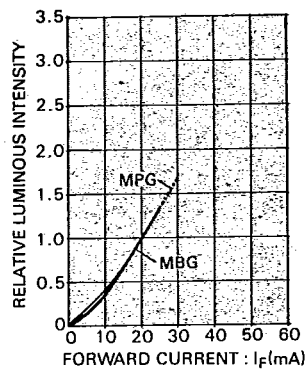
RATIO OF MAXIMUM TOLERABLE
PEAK CURRENT
TO MAXIMUM TOLERABLE
DC CURRENT



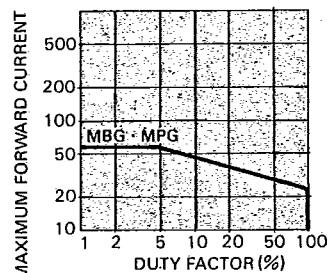
MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION



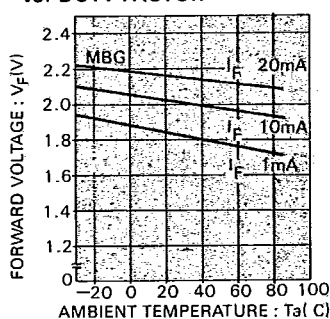
MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE



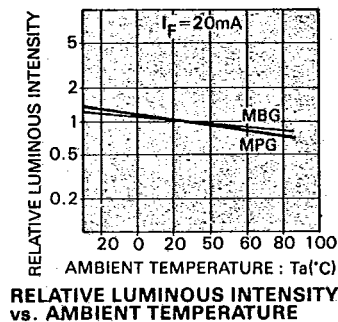
RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT



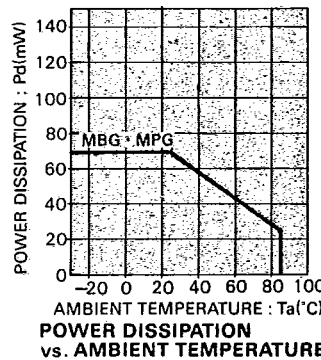
MAXIMUM FORWARD CURRENT vs. DUTY FACTOR



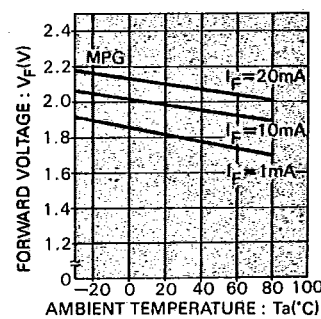
FORWARD VOLTAGE vs. AMBIENT TEMPERATURE



RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE

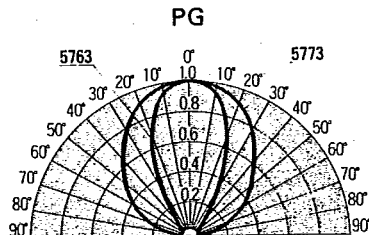
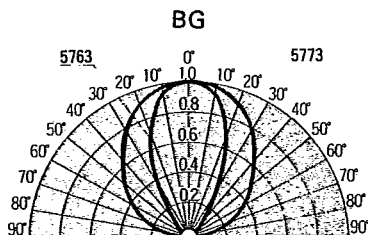


POWER DISSIPATION vs. AMBIENT TEMPERATURE



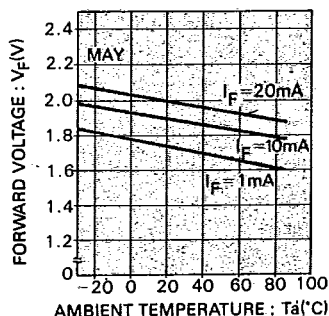
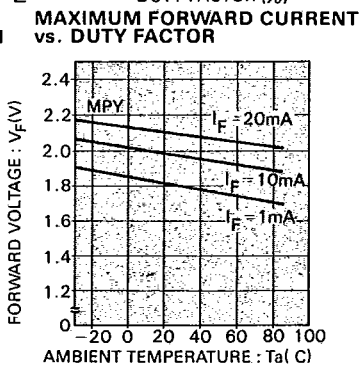
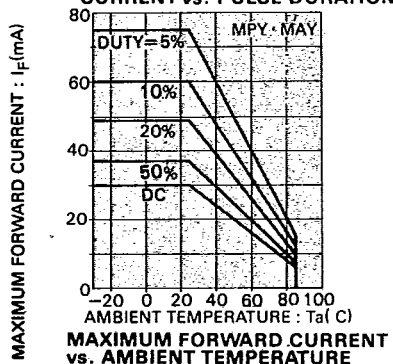
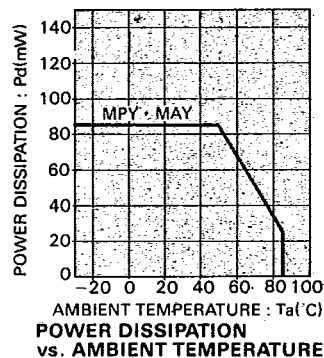
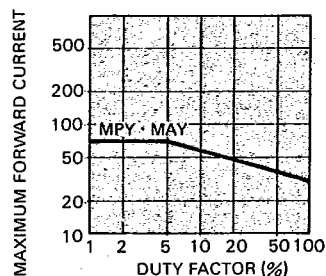
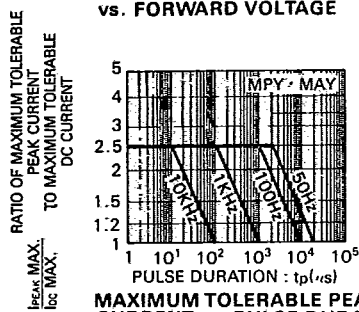
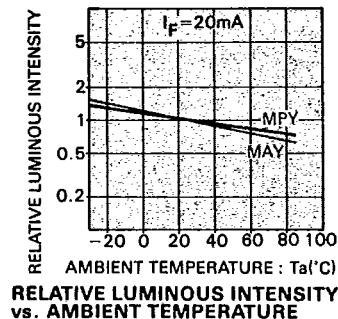
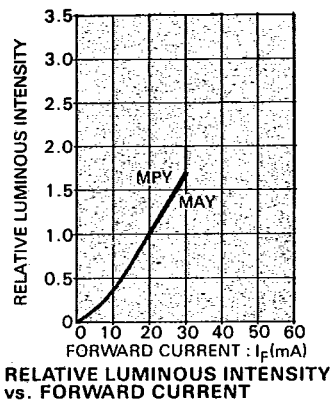
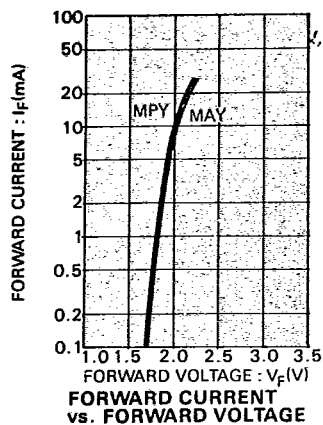
LED LAMP

■ SPATIAL DISTRIBUTION

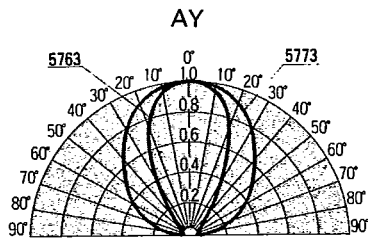
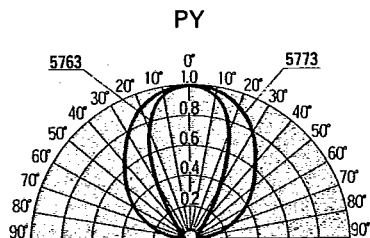


YELLOW

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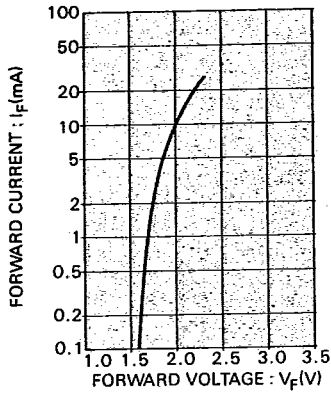


SPATIAL DISTRIBUTION

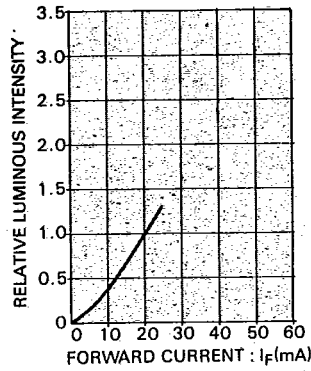


ORANGE

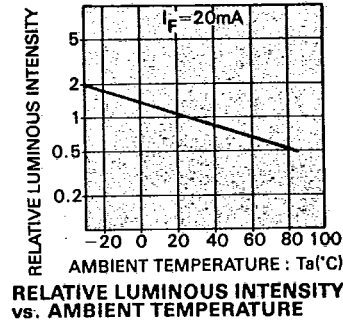
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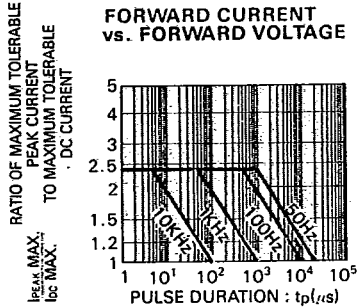
FORWARD CURRENT vs. FORWARD VOLTAGE



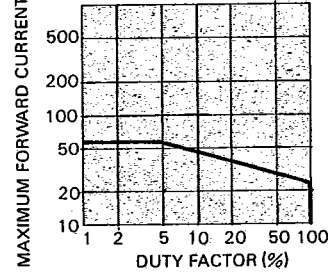
RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT



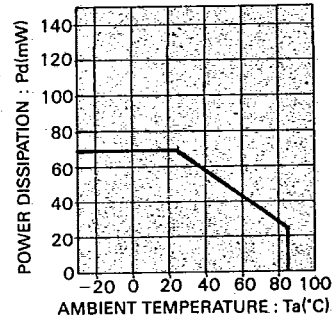
RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE



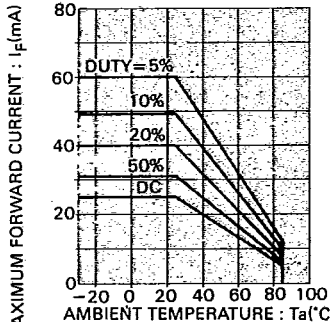
MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION



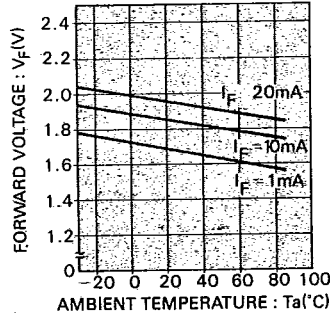
MAXIMUM FORWARD CURRENT vs. DUTY FACTOR



POWER DISSIPATION vs. AMBIENT TEMPERATURE

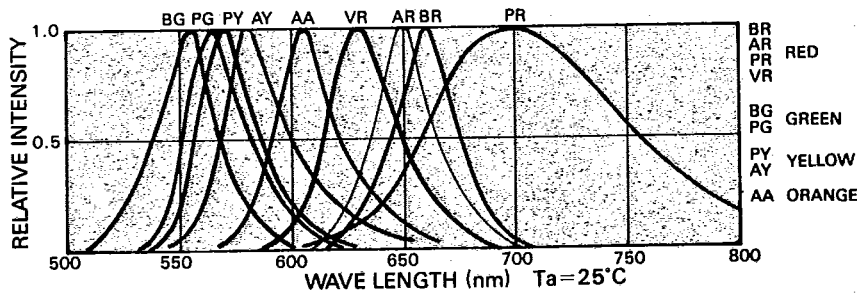
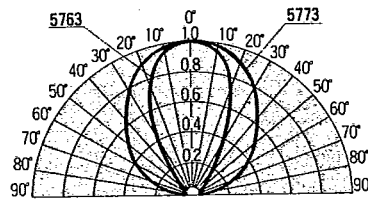


MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE



FORWARD VOLTAGE vs. AMBIENT TEMPERATURE

SPATIAL DISTRIBUTION



RELATIVE INTENSITY vs. WAVE LENGTH