



T-41-21

**STANLEY
SUPER BRIGHT
LED LAMP**

φ5(T-1³/₄)TYPE

5763X/5773X

SERIES

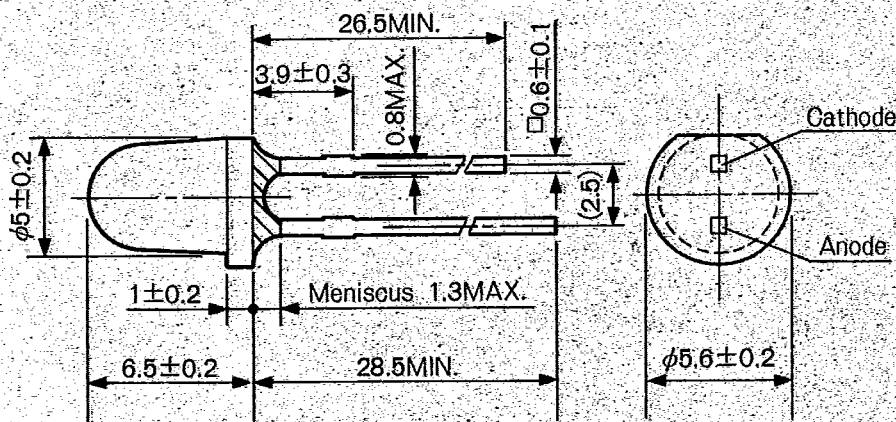
SELECTION GUIDE

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)

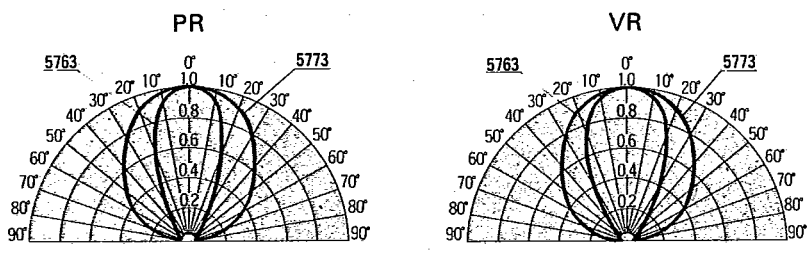
Parameter	Symbol	Red			Green		Yellow		Orange	Units
		BR	PR	VR	BG	PG	PY	AY	AA	
Forward Current	I_F	50	30	30	25	25	30	30	25	mA
Peak Forward Current	I_{FM}	300	75	75	60	60	75	75	60	mA
Reverse Voltage	V_R	4			4		4		4	V
Power Dissipation	P_d	100	75	75	70	70	85	85	70	mW
Operating Temperature	T_{opr}	-30 ~ +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 $\Delta\lambda$ (nm)	V_f (V)		at I_F (mA)	at $V_f=4V$ I_n (μA)	Capacitance (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

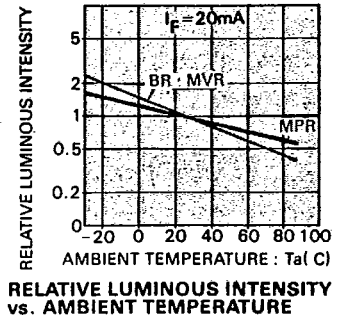
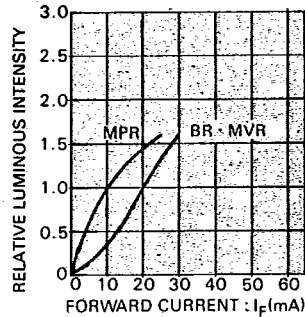
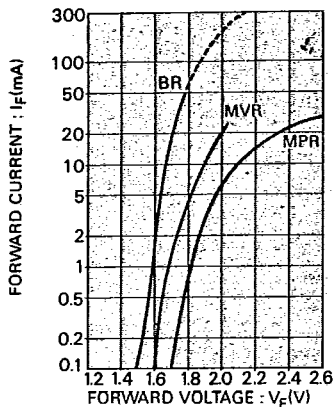


RED SPATIAL DISTRIBUTION



RED

T-41-21

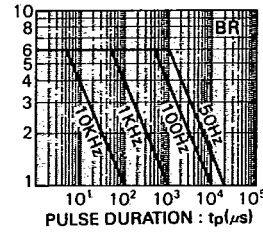


RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT

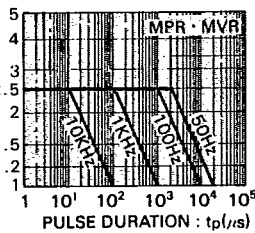
RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE

FORWARD CURRENT vs. FORWARD VOLTAGE

RATIO OF MAXIMUM TOLERABLE PEAK CURRENT TO MAXIMUM TOLERABLE DC CURRENT

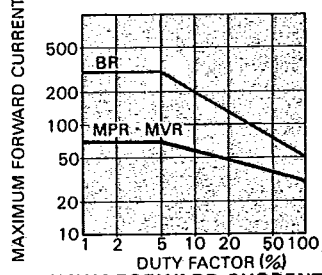


RATIO OF MAXIMUM TOLERABLE PEAK CURRENT TO MAXIMUM TOLERABLE DC CURRENT

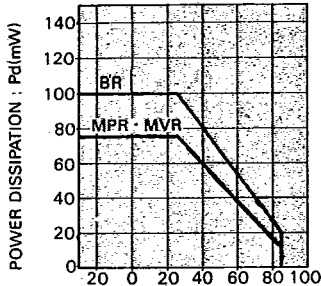


MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION

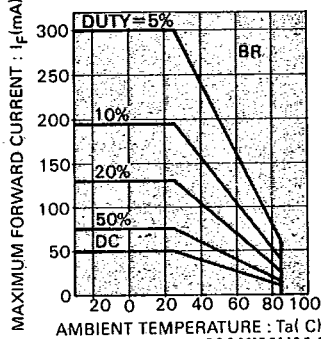
MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION



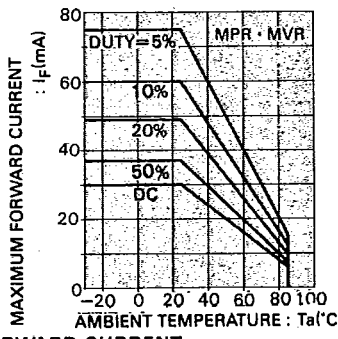
MAXIMUM FORWARD CURRENT vs. DUTY FACTOR



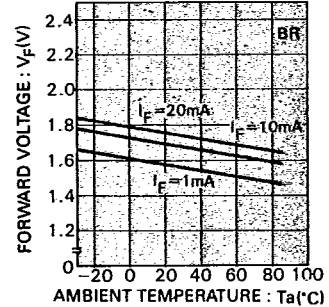
POWER DISSIPATION vs. AMBIENT TEMPERATURE



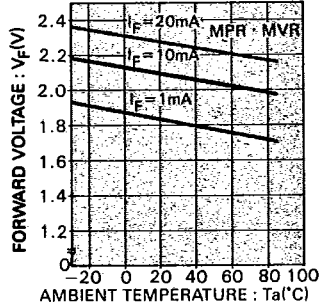
MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE



MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE

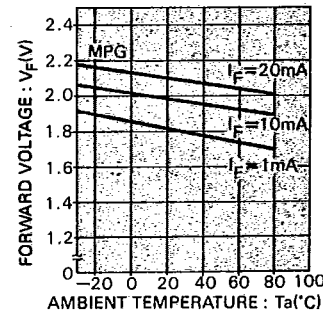
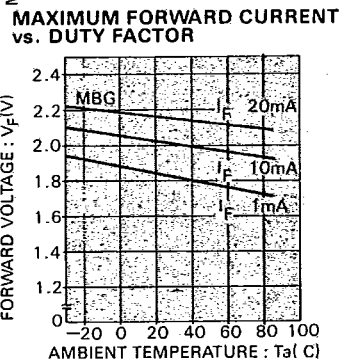
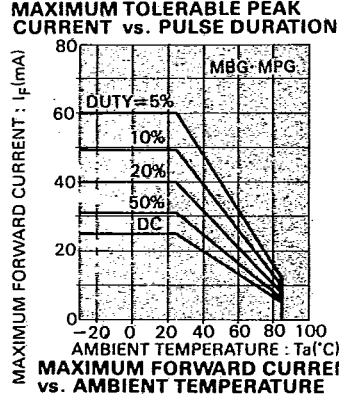
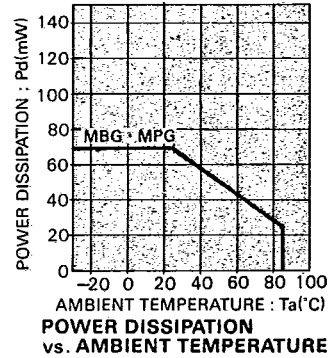
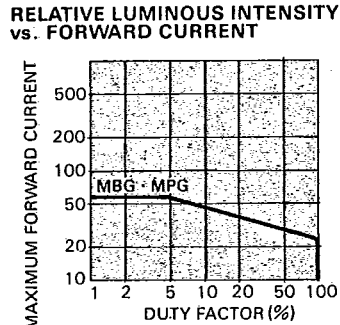
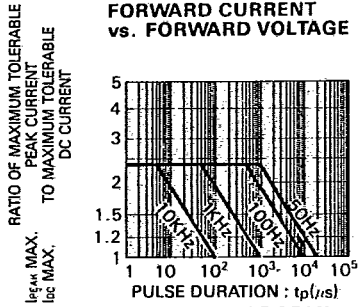
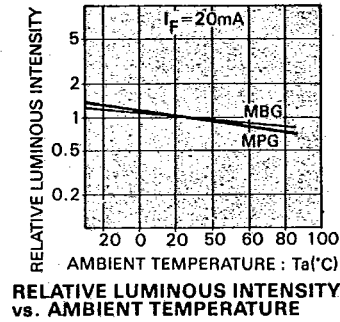
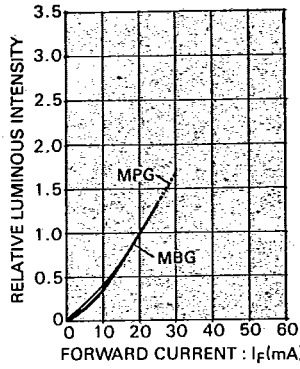
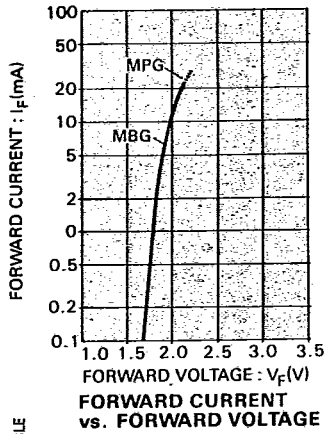


FORWARD VOLTAGE vs. AMBIENT TEMPERATURE

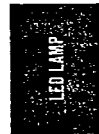


GREEN

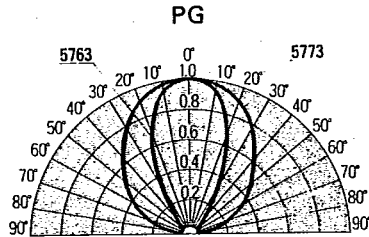
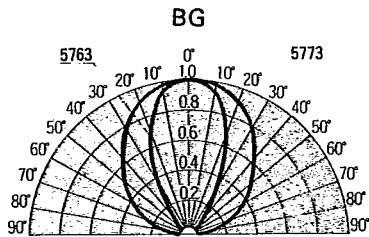
T-41-21



FORWARD VOLTAGE vs. AMBIENT TEMPERATURE

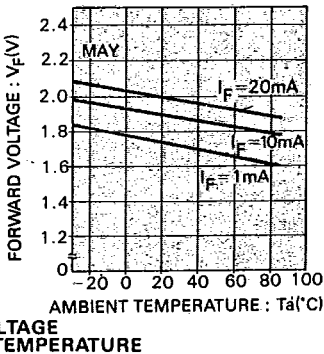
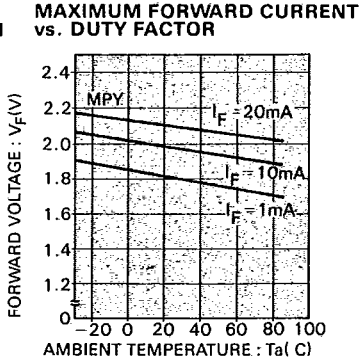
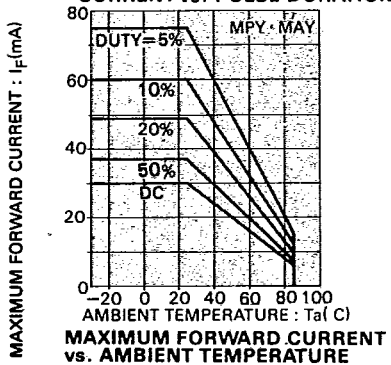
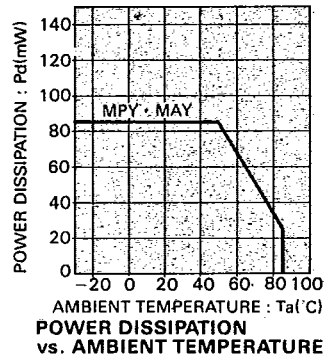
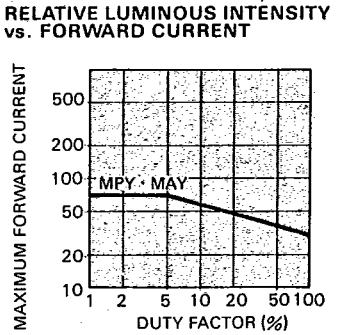
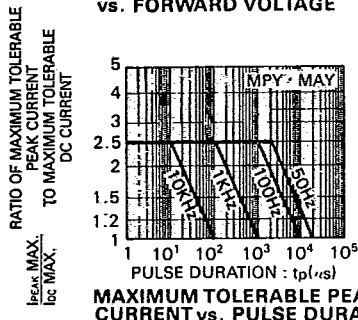
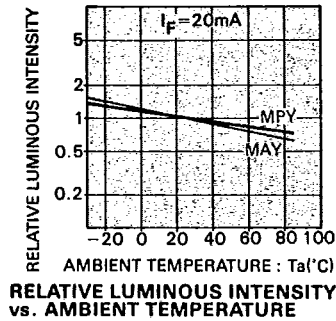
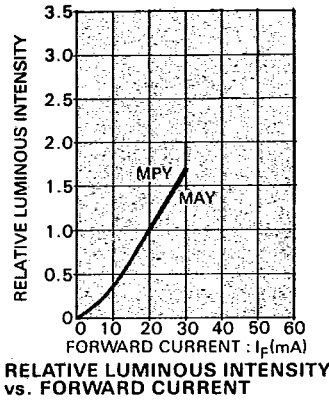
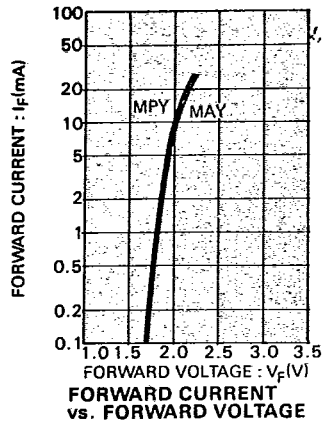


SPATIAL DISTRIBUTION

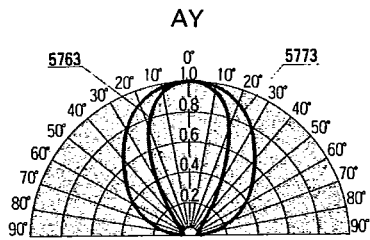
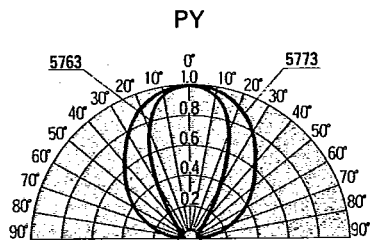


YELLOW

T-41-21



SPATIAL DISTRIBUTION



ORANGE

T-41-21

