

STANLEY

T-41-23

**STANLEY
SUPER BRIGHT
LED LAMP****TRIANGLE TYPE****5542TRI****5552TRI****SERIES****SELECTION GUIDE**

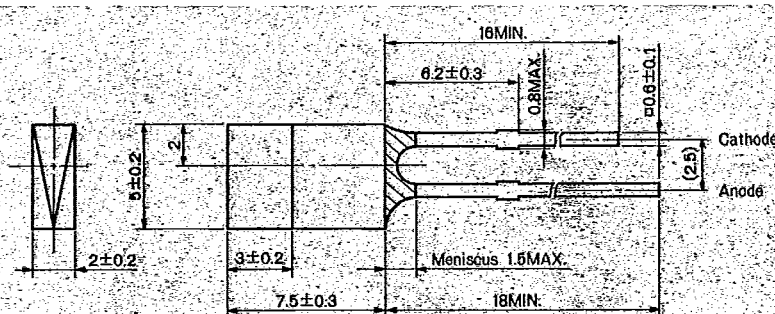
COLOR	MATERIAL	PART NUMBER
Red	GaP	SPR 5542TRI, 5552TRI
Green	GaP	SBG 5542TRI, 5552TRI
	GaP	SPG 5552TRI
Yellow	GaAsP/GaP	SAY 5542TRI, 5552TRI
Orange	GaAsP/GaP	SAA 5542TRI, 5552TRI

FEATURES

- AVAILABLE IN 4 COLORS; RED, GREEN, YELLOW AND ORANGE
- STEPPED CONSTRUCTION PERMITS EASY INSTALLATION
- MOST SUITABLE FOR DIRECTION INDICATOR OF TAPE RECORDER
- FLAT LIGHT-EMITTING SURFACE WITH UNIFORM ILLUMINATION
- LOW CURRENT DRIVE, DIRECTLY COMPATIBLE WITH IC
- QUICK RESPONSE, ALLOWING PULSED OPERATION
- HIGH RELIABILITY

DESCRIPTION

The triangular type LEDs are the standard types using GaP and GaAsP/GaP chips. As these triangular types feature high visibility, they are most suitable not only for the indicators but also for various kind of applications.

Package Dimensions—Unit in mm

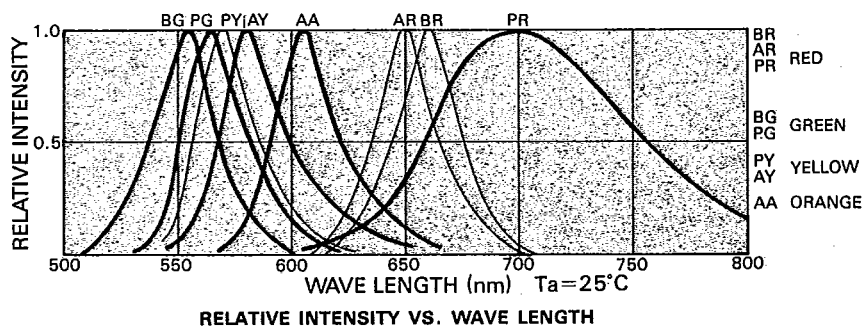
Absolute Maximum Ratings (Ta=25°C)

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

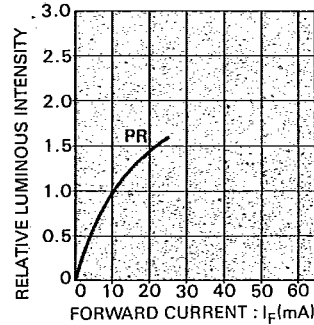
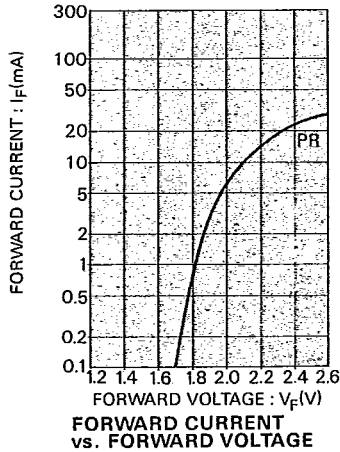
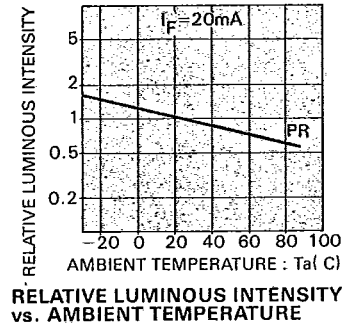
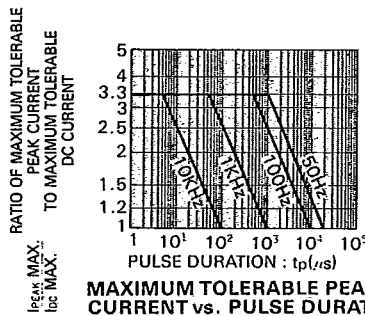
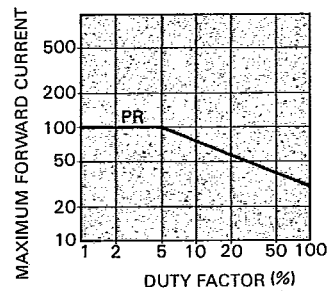
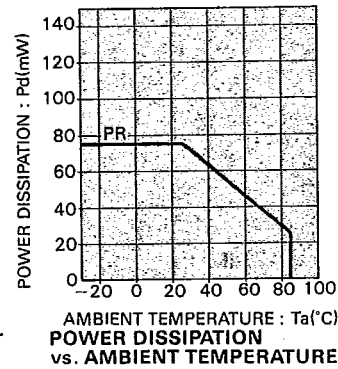
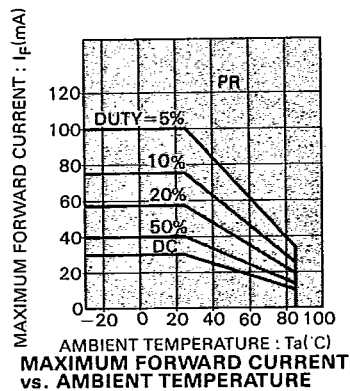
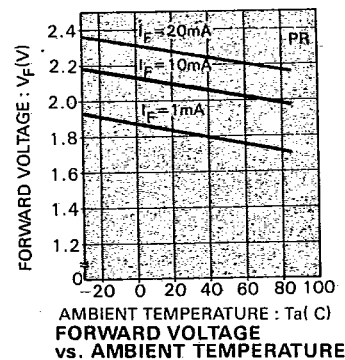
Electro-Optical Characteristics (Ta=25°C)

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 _F 4V I _F (μA)	Capaci tance C ₀ (pF)
	Material	Emitted Color		Min.	Typ.				Typ.	Max.			
SPR5552TRI(42TRI)	GaP	Red	C.S.D (W.S.D)	0.3	0.5	10	700	100	2.1	2.5	10	100	70
SBG5552TRI(42TRI)	GaP	Green	C.S.D (W.S.D)	0.5	1.0	20	555	30	2.1	2.5	20	100	50
SPG5552TRI	GaP	Green	C.S.D	1.5	3.0	20	565	30	2.1	2.5	20	100	40
SAY5552TRI(42TRI)	GaAsP/GaP	Yellow	C.S.D (W.S.D)	1.2	2.4	20	580	30	2.2	2.5	20	100	40
SAA5552TRI(42TRI)	GaAsP/GaP	Orange	C.S.D (W.S.D)	1.2	2.4	20	605	30	2.2	2.5	20	100	50



RED

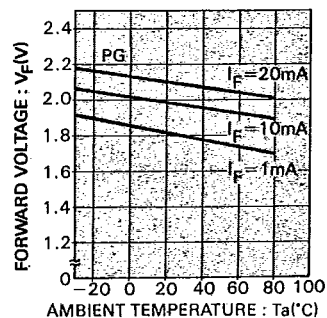
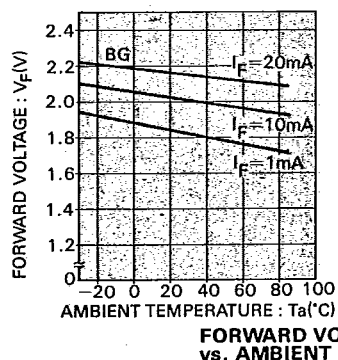
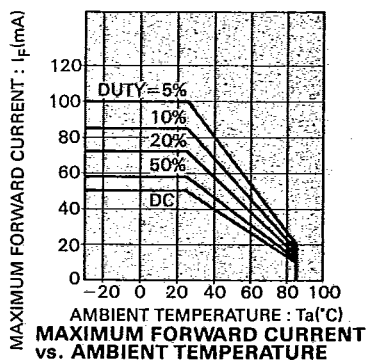
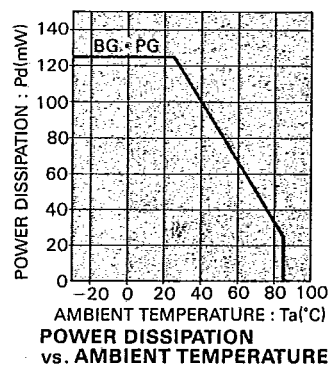
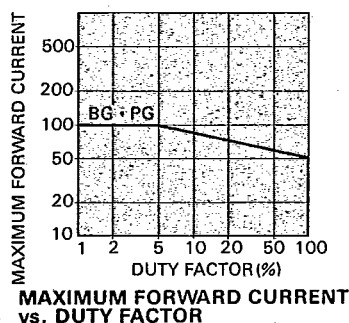
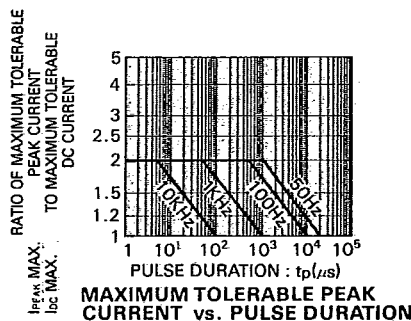
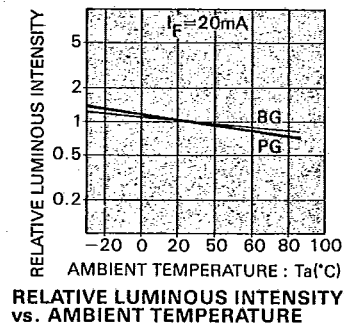
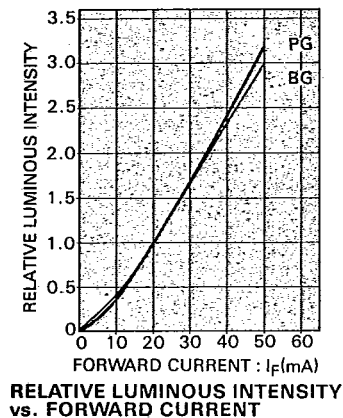
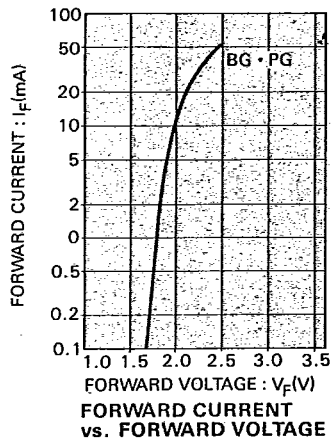
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RELATIVE LUMINOUS INTENSITY
vs. FORWARD CURRENTRELATIVE LUMINOUS INTENSITY
vs. AMBIENT TEMPERATUREMAXIMUM TOLERABLE PEAK
CURRENT vs. PULSE DURATIONMAXIMUM FORWARD CURRENT
vs. DUTY FACTORPOWER DISSIPATION
vs. AMBIENT TEMPERATUREMAXIMUM FORWARD CURRENT
vs. AMBIENT TEMPERATUREFORWARD VOLTAGE
vs. AMBIENT TEMPERATURE

LED LAMP

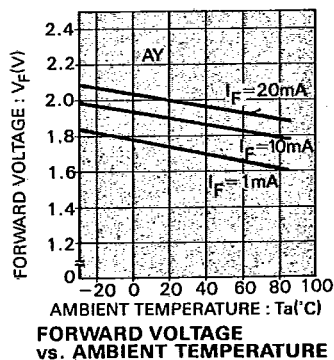
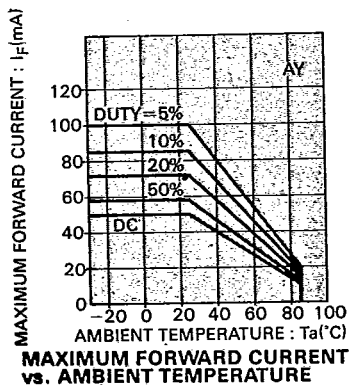
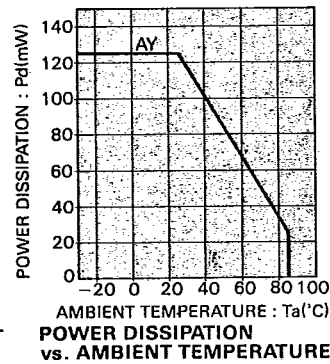
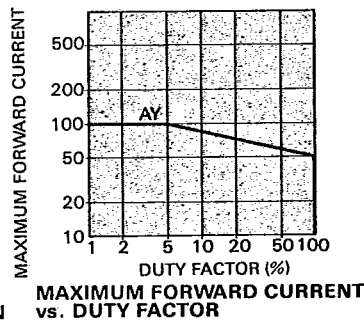
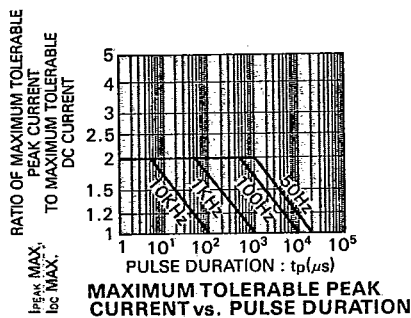
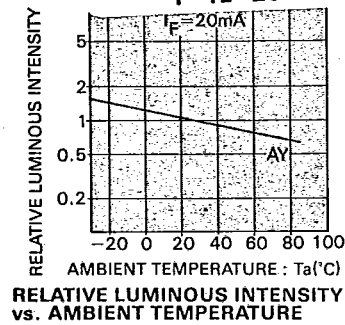
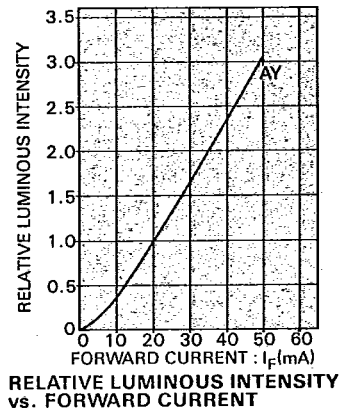
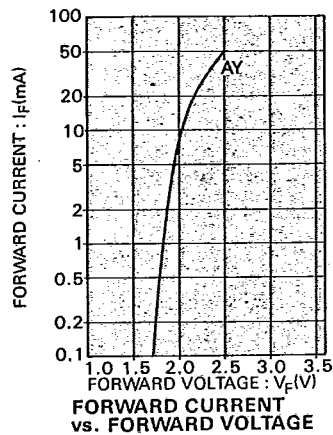
GREEN

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YELLOW

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ORANGE

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