

STANLEY**STANLEY
SUPER BRIGHT
LED LAMP**

T-41-23

φ3.6 TYPE

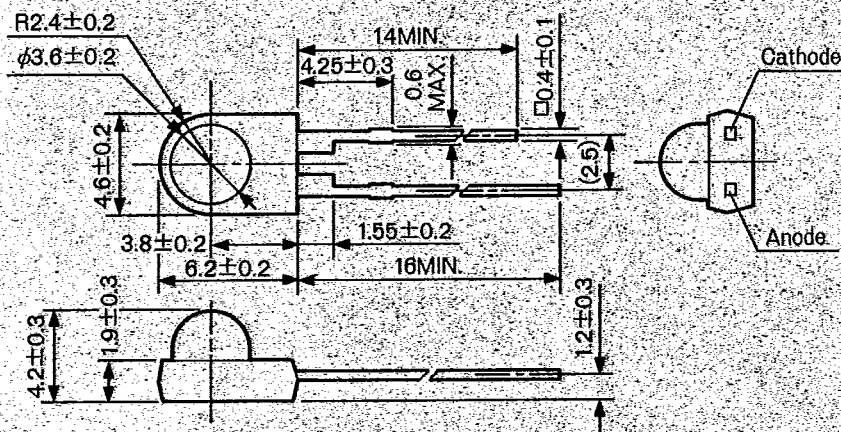
4361F/4371F

SERIES**DESCRIPTION**

COLOR	MATERIAL	PART NUMBER
Red	GaAlAs	BR 4361F, 4371F
	GaAsP/GaP	MVR 4361F, 4371F
	GaP	MPR 4361F, 4371F
Green	GaP	MBG 4361F, 4371F
		MPG 4361F, 4371F
Yellow	GaP	MPY 4361F, 4371F
	GaAsP/GaP	MAY 4361F, 4371F
Orange	GaAsP/GaP	MAA 4361F, 4371F

DESCRIPTION

This series was developed for use in operational indication applications. It features sideways molded packages and lateral directivity, eliminating the forming of leads which was required to mount previously available indicators. This series employs low current type LED dies. Ideal for power supply and communications equipment operational indicators

Package Dimensions—Unit in mm

A C INTERFACE INC 10E D 0023383 0000119 3

■ 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)								

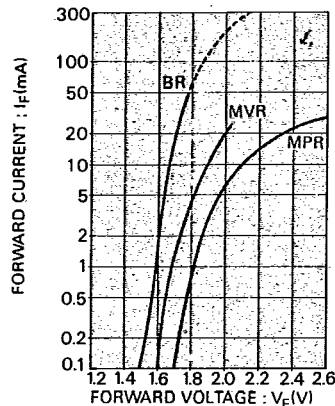
■ Electro-Optical Characteristics (Ta=25°C)

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 _s (μA)	Capacitance C _o (pF)
	Material	Emitted Color		Min.	Typ.				Typ.	Max.			
BR4361F(71)	GaAlAs	Red	P.C (P.D)	10 (5)	20 (10)	20	660	30	1.7	2.0	20	20	50
MPR4361F(71)	GaP	Red	P.C (P.D)	0.6 (0.5)	1.2 (1)	10	700	100	2.1	2.8	10	20	40
MVR4361F(71)	GaAsP/GaP	Red	P.C (P.D)	4 (3)	8 (6)	20	630	30	2.0	2.8	20	20	10
MBG4361F(71)	GaP	Green	P.C (P.D)	3 (1.5)	6 (3)	20	555	30	2.1	2.8	20	20	25
MPG4361F(71)	GaP	Green	P.C (P.D)	5 (3)	10 (6)	20	560	30	2.1	2.8	20	20	25
MPY4361F(71)	GaP	Yellow	P.C (P.D)	6 (5)	12 (10)	20	570	30	2.1	2.8	20	20	20
MAY4361F(71)	GaAsP/GaP	Yellow	P.C (P.D)	5 (4)	10 (8)	20	580	30	2.2	2.8	20	20	10
MAA4361F(71)	GaAsP/GaP	Orange	P.C (P.D)	5 (4)	10 (8)	20	605	30	2.2	2.8	20	20	10

LED LAMP

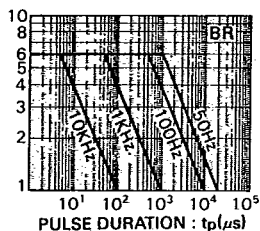
RED

T-41-23

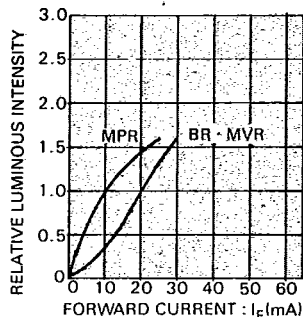


FORWARD CURRENT vs. FORWARD VOLTAGE

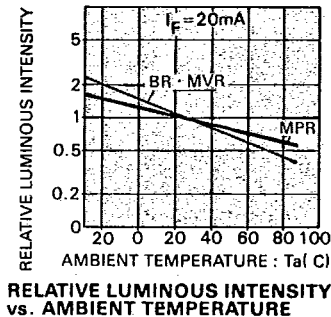
RATIO OF MAXIMUM TOLERABLE
PEAK CURRENT
TO MAXIMUM TOLERABLE
DC CURRENT



MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION

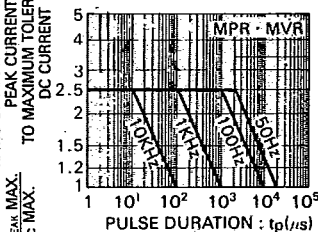


RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT

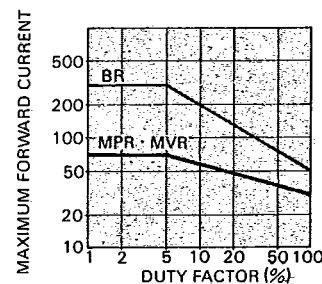


RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE

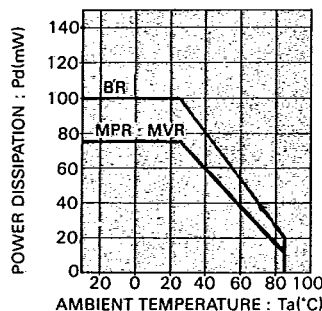
RATIO OF MAXIMUM TOLERABLE
PEAK CURRENT
TO MAXIMUM TOLERABLE
DC CURRENT



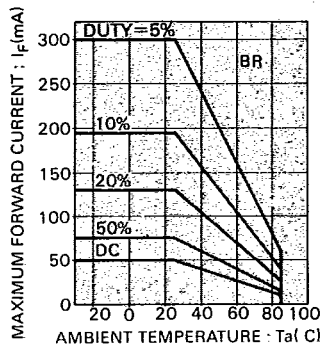
MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION



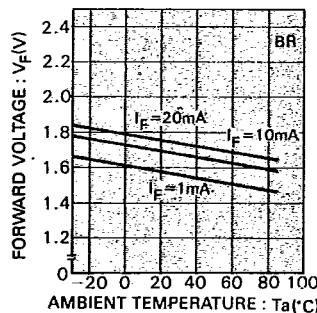
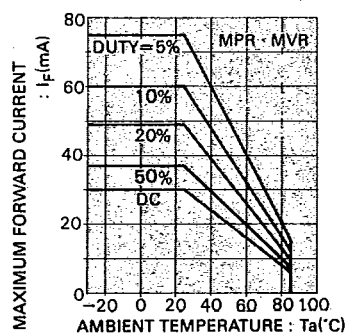
MAXIMUM FORWARD CURRENT vs. DUTY FACTOR



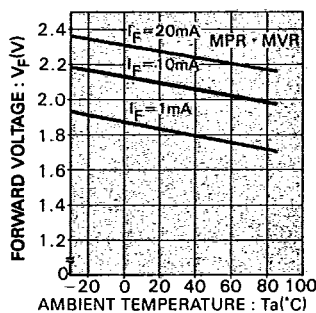
POWER DISSIPATION vs. AMBIENT TEMPERATURE



MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE

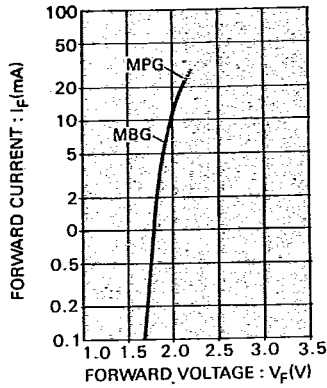


FORWARD VOLTAGE vs. AMBIENT TEMPERATURE

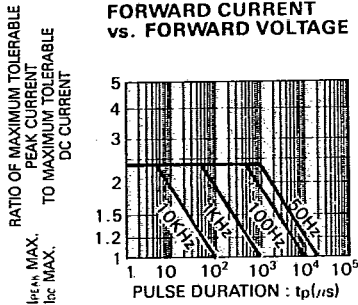


GREEN

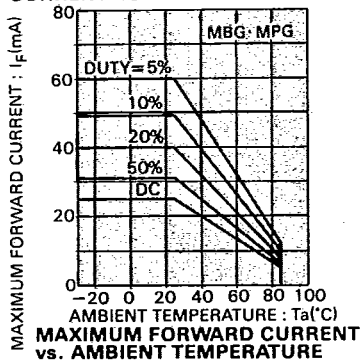
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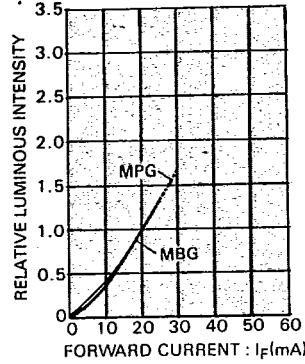
FORWARD CURRENT vs. FORWARD VOLTAGE



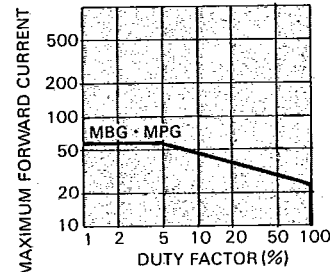
MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION



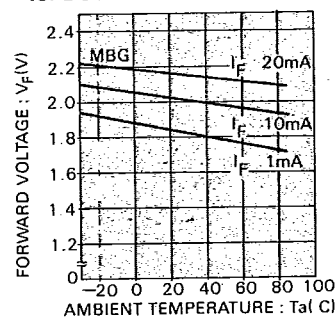
MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE



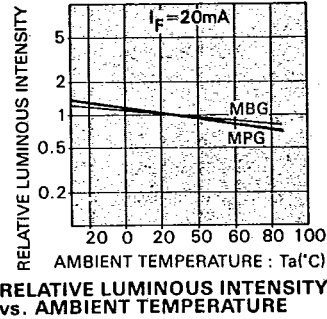
RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT



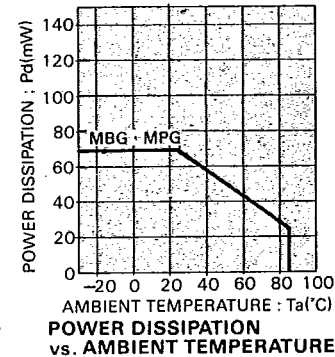
MAXIMUM FORWARD CURRENT vs. DUTY FACTOR



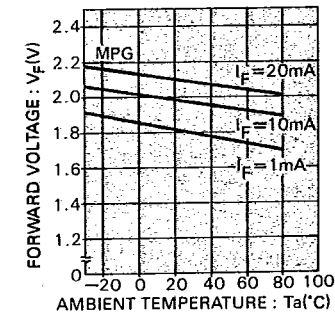
FORWARD VOLTAGE vs. AMBIENT TEMPERATURE



RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE



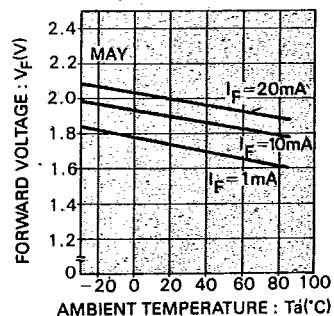
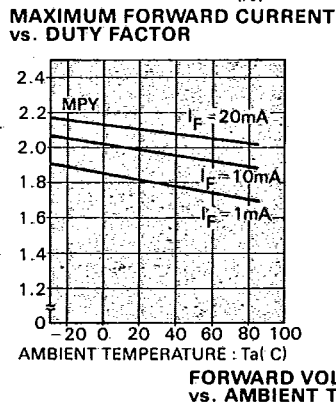
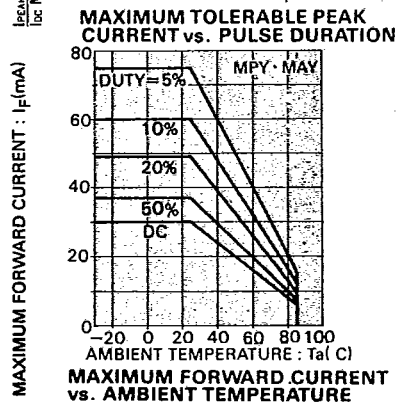
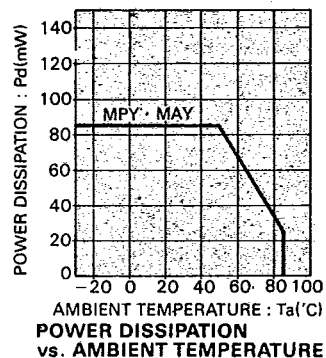
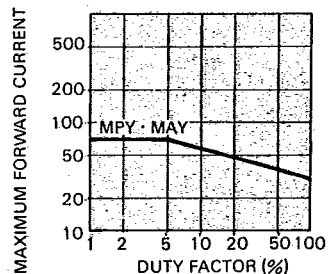
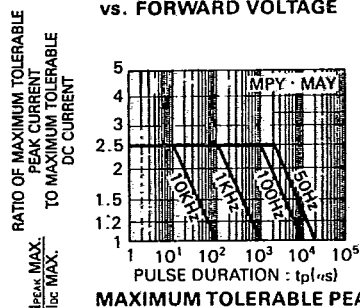
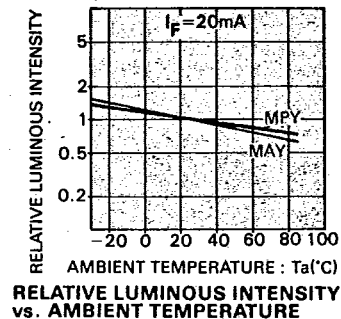
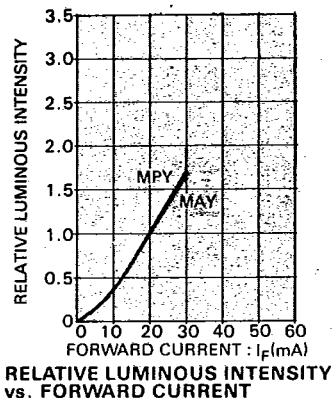
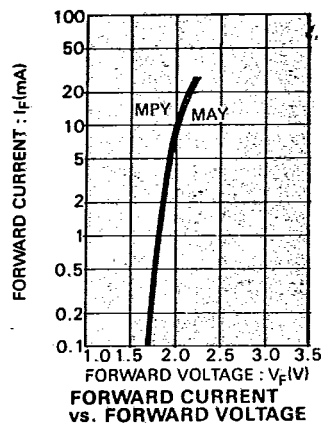
POWER DISSIPATION vs. AMBIENT TEMPERATURE



LED LAMP

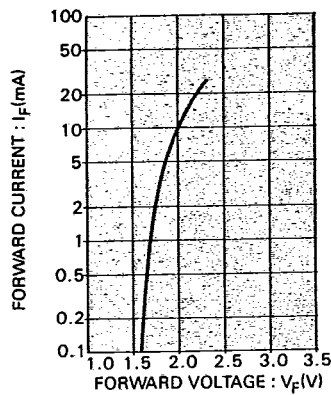
YELLOW

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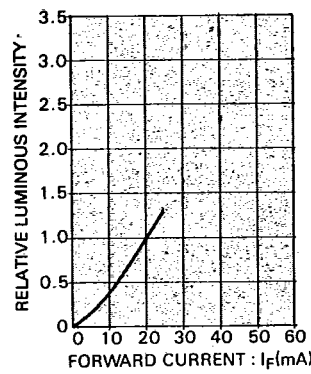


ORANGE

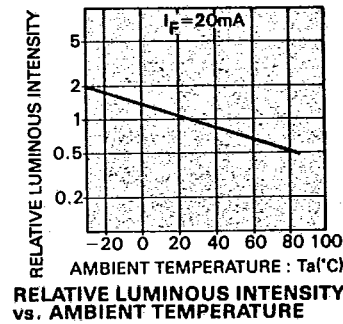
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FORWARD CURRENT vs. FORWARD VOLTAGE

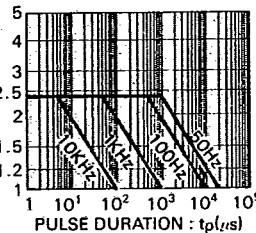


RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT

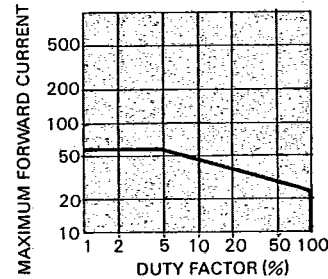


RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE

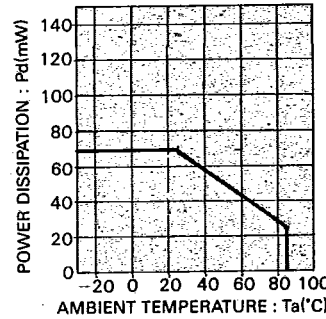
RATIO OF MAXIMUM TOLERABLE
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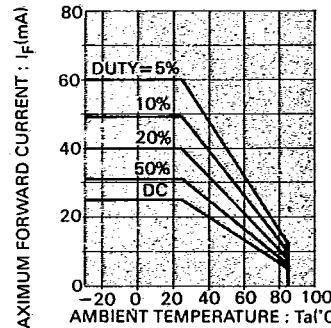
MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION



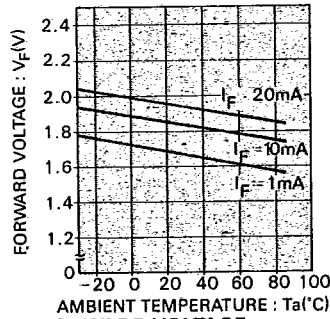
MAXIMUM FORWARD CURRENT vs. DUTY FACTOR



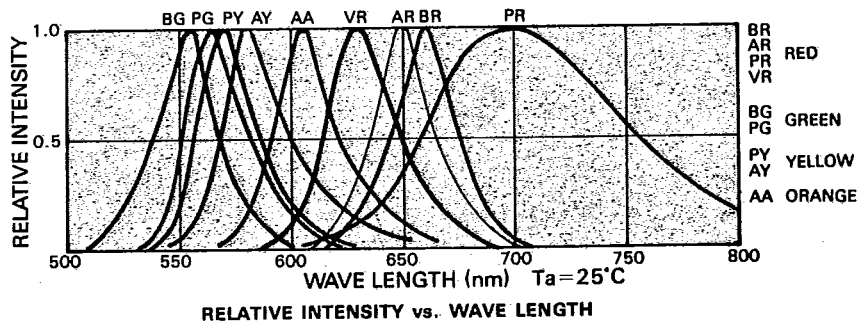
POWER DISSIPATION vs. AMBIENT TEMPERATURE



MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE



FORWARD VOLTAGE vs. AMBIENT TEMPERATURE



RELATIVE INTENSITY vs. WAVE LENGTH

LED LAMP