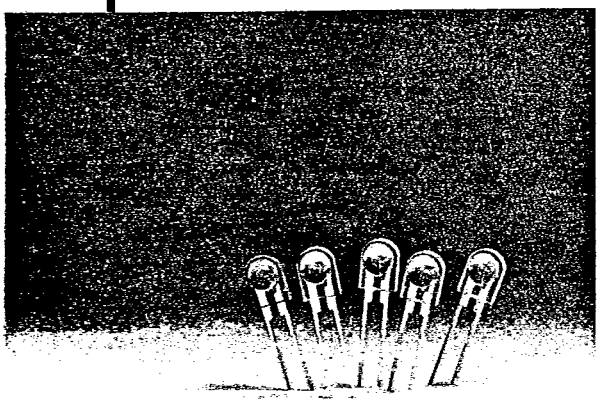
STANLEY

T-41-23

# STANLEY SUPER BRIGHT LED LAMP

φ3.6 TYPE

## 4361F/4371F SERIES



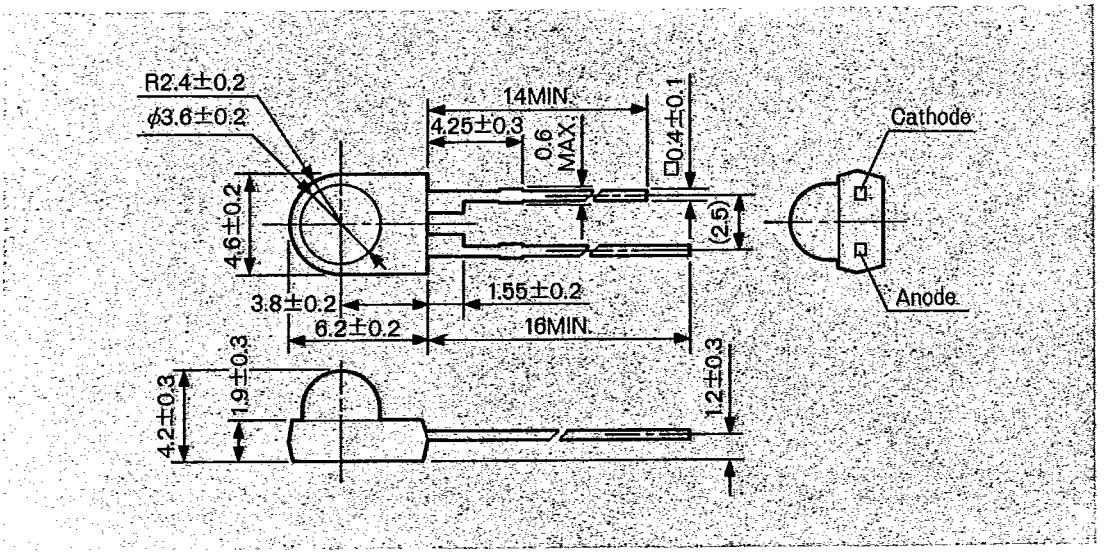
## ■DESCRIPTION

| 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



## ■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 | Pd | 100 | 75 | 75 | 70 | 70 | 85 | 85 | 70 | 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 | Iv(mcd) | | at $I_F$ | Peak Wave Length λp(nm) | Spectral Line Half Width Δλ(nm) | $V_F$(V) | | at $I_F$ | at $V_R$4V | Capacitance Co(pF) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Material | Emitted Color | | Min. | Typ. | (mA) | | | Typ. | Max. | (mA) | $I_R$(μA) | |
| 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 |

# RED

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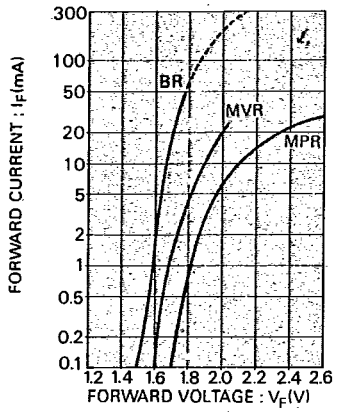
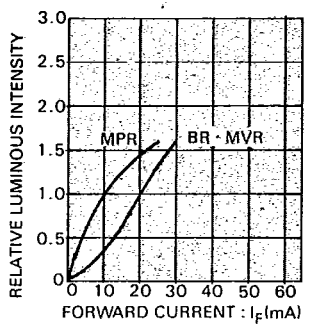
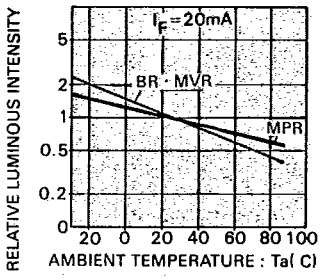


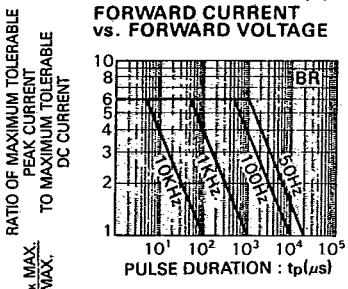

**FORWARD CURRENT vs. FORWARD VOLTAGE**



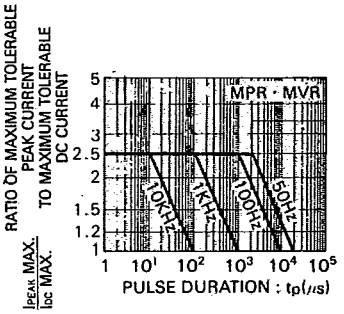

**RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT**

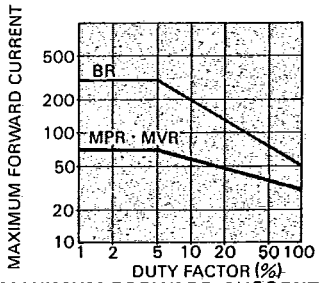



**RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE**

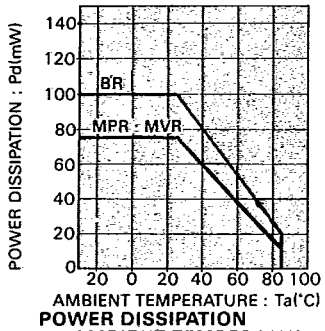



**MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION**

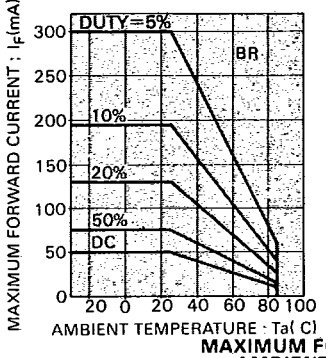


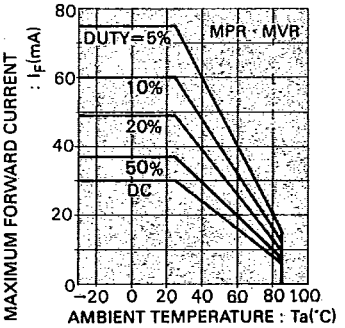




**MAXIMUM FORWARD CURRENT vs. DUTY FACTOR**

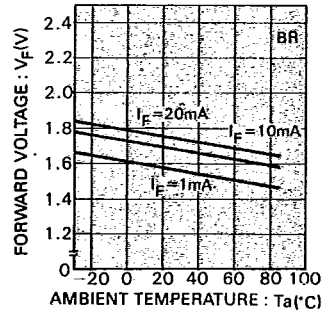


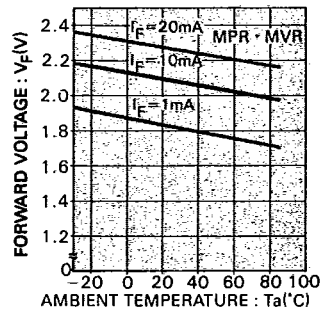

**POWER DISSIPATION vs. AMBIENT TEMPERATURE**




**MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE**




**FORWARD VOLTAGE vs. AMBIENT TEMPERATURE**

# GREEN

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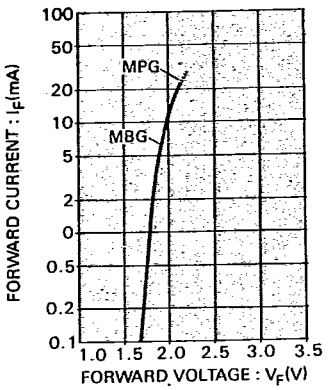
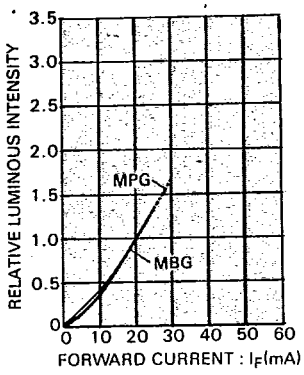
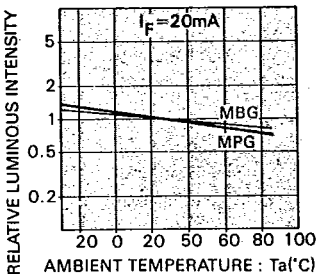


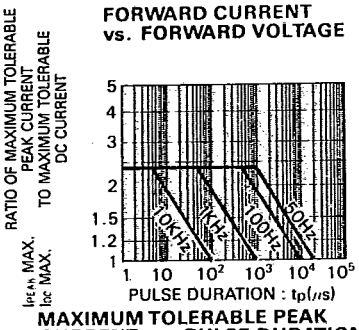

**FORWARD CURRENT vs. FORWARD VOLTAGE**



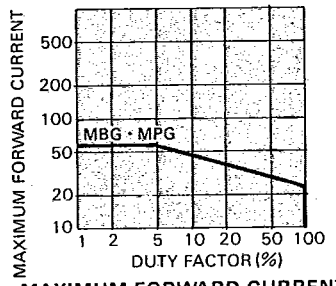

**RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT**



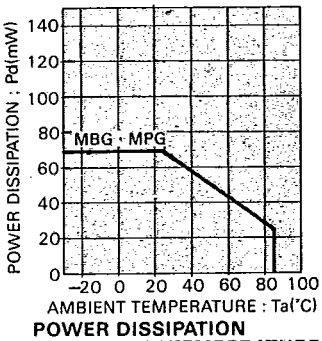

**RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE**



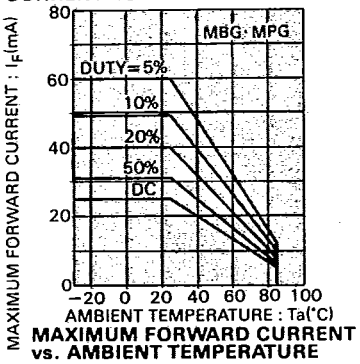

**MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION**



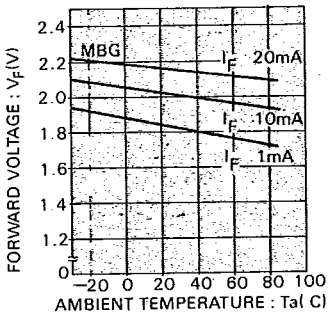

**MAXIMUM FORWARD CURRENT vs. DUTY FACTOR**

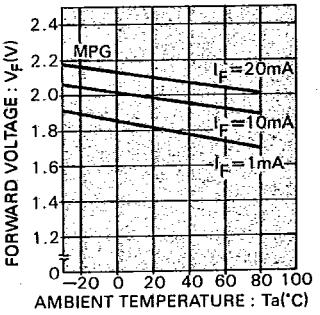



**POWER DISSIPATION vs. AMBIENT TEMPERATURE**




**MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE**

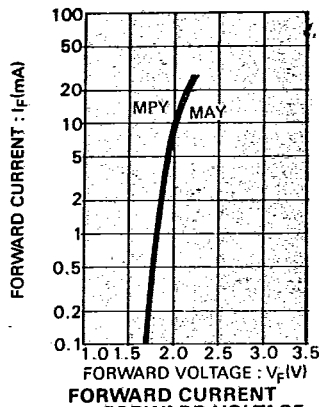


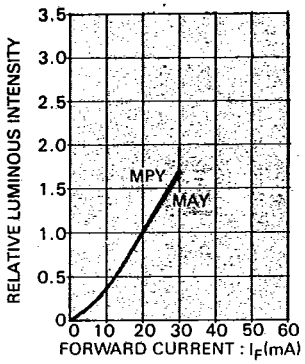

**FORWARD VOLTAGE vs. AMBIENT TEMPERATURE**

LED LAMP

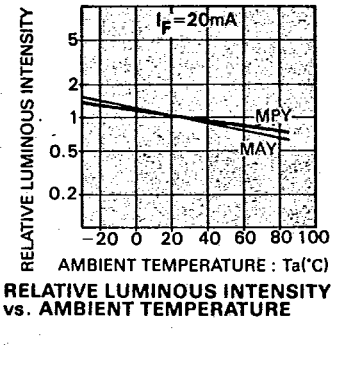
# YELLOW



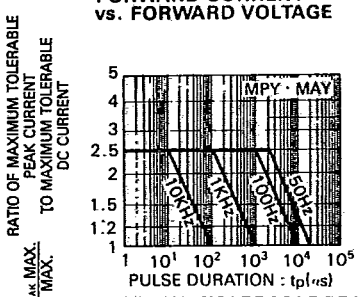

**FORWARD CURRENT vs. FORWARD VOLTAGE**



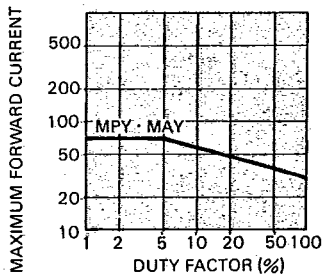

**RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT**



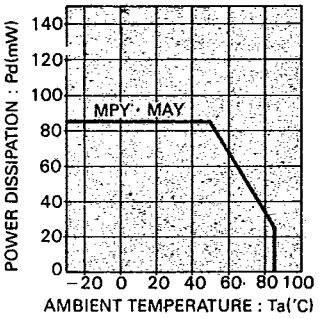

**RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE**



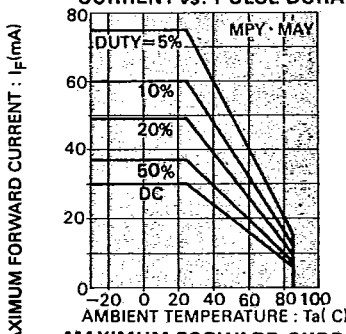

**MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION**



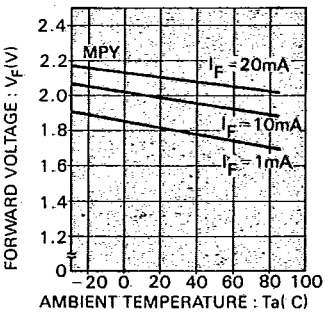

**MAXIMUM FORWARD CURRENT vs. DUTY FACTOR**

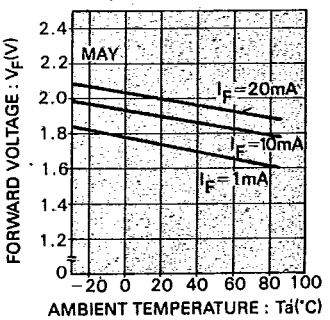



**POWER DISSIPATION vs. AMBIENT TEMPERATURE**




**MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE**




**FORWARD VOLTAGE vs. AMBIENT TEMPERATURE**

# ORANGE

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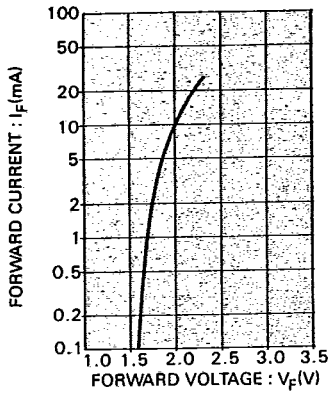
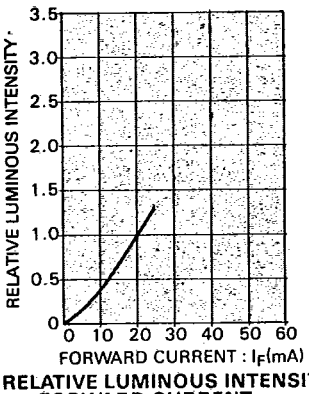
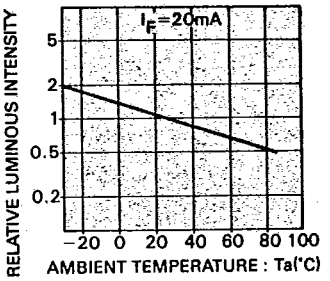


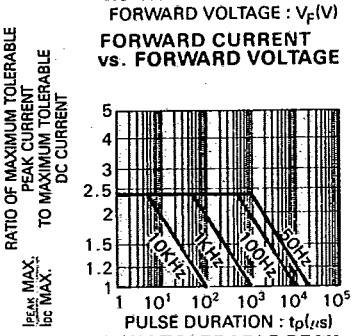

FORWARD CURRENT vs. FORWARD VOLTAGE



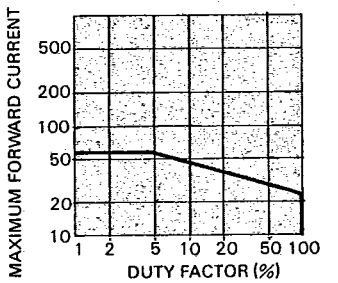

RELATIVE LUMINOUS INTENSITY vs. FORWARD CURRENT



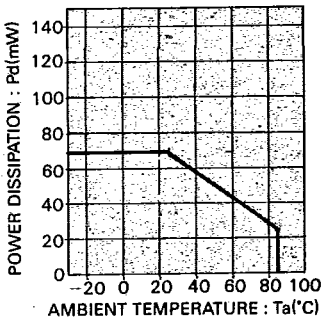

RELATIVE LUMINOUS INTENSITY vs. AMBIENT TEMPERATURE



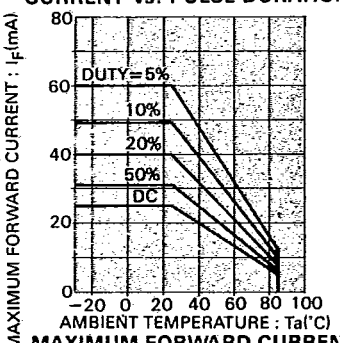

MAXIMUM TOLERABLE PEAK CURRENT vs. PULSE DURATION



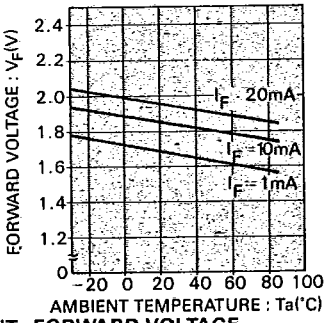

MAXIMUM FORWARD CURRENT vs. DUTY FACTOR



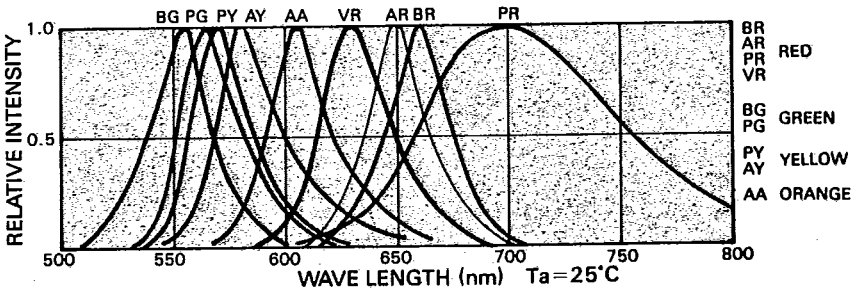

POWER DISSIPATION vs. AMBIENT TEMPERATURE




MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE




FORWARD VOLTAGE vs. AMBIENT TEMPERATURE




RELATIVE INTENSITY vs. WAVE LENGTH

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