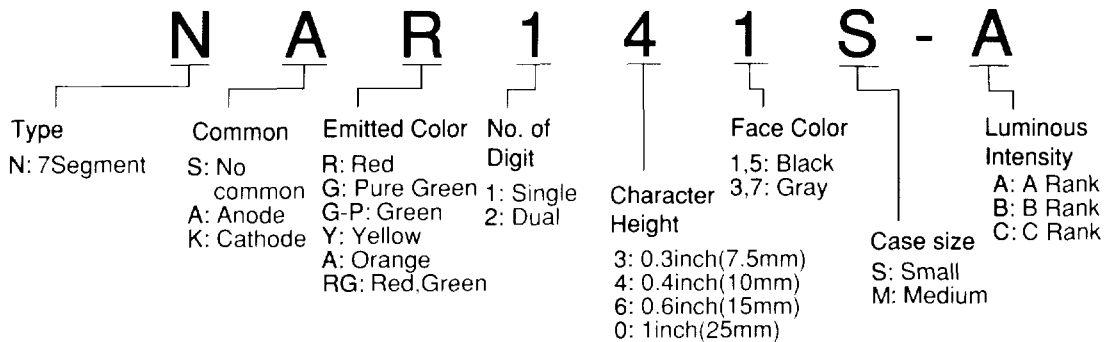


SUPER BRIGHT LED NUMERIC DISPLAY

Stanley's alpha-numeric displays incorporating super-bright LEDs produce vivid, brilliant displays. Emitted colors available are red, pure green, green, yellow and orange. Display types include segment type (character heights 0.3" to 1.0") and the alpha-numeric type (character heights 1.0" and 2.0"). These are suitable for dynamic drive due to the low-current drive characteristics.

DESCRIPTION ON TYPE NO.



CHARACTERISTICS BY COLOR

Ta=25°C

| Size | Type No. | Material (Emitted Color) | No. of Segment | Absolute Maximum Rating | | | | | Electro-Optical Characteristics | | | | | Derating ΔIf | | | |
|--------------|-----------------|-----------------------------|----------------|----------------------------|--------------------------|-----------------------------------|--------------------------|---------------------------|---------------------------------|-----------------------|------------|-----------------------|-----------|-----------------|------------------|----------|------|
| | | | | Power Dissipation Pd | Forward Current If | Peak Forward Current IFM | Reverse Voltage Vr | Operating Temp Topr | Storage Temp Tstg | Forward Voltage VF | | Reverse Current IR | | | Wavelength λp | | |
| | | | | | | | | | | TYP. | MAX. | MAX. | Vr | | TYP. | If | |
| 0.3" | N[R13] | GaP(Red) | 1 | 37.5 | 15 | 60 | 4 | -30~+85 | -30~+85 | 2.0 | 2.5 | 10 | 100 | 4 | 700 | 10 | 0.25 |
| | N[R13]S,ME | GaAlAs(Red) | 1 | 40 | 20 | 80 | 4 | -30~+85 | -30~+85 | 1.7 | 2.0 | 10 | 100 | 4 | 660 | 10 | 0.33 |
| | N[G13]S,M | GaP(Pure Green) | 1 | 36 | 15 | 60 | 4 | -30~+85 | -30~+85 | 2.0 | 2.4 | 10 | 100 | 4 | 555 | 10 | 0.25 |
| | N[G13]P,SP,MP | GaAsP:GaP(Green) | 1 | 48 | 20 | 80 | 4 | -30~+85 | -30~+85 | 2.0 | 2.4 | 10 | 100 | 4 | 565 | 10 | 0.33 |
| | N[Y13]S,M | GaAsP:GaP(Yellow) | 1 | 48 | 20 | 80 | 4 | -30~+85 | -30~+85 | 2.0 | 2.4 | 10 | 100 | 4 | 580 | 10 | 0.33 |
| | N[A13]S,M | GaAsP:GaP(Orange) | 1 | 48 | 20 | 80 | 4 | -30~+85 | -30~+85 | 2.0 | 2.4 | 10 | 100 | 4 | 605 | 10 | 0.33 |
| 0.4" | N[R14]N[R24] | GaAlAs(Red) | 1 | 60 | 30 | 120 | 4 | -40~+85 | -40~+85 | 1.7 | 2.0 | 20 | 100 | 4 | 660 | 20 | 0.41 |
| | N[R14]S | GaAlAs(Red) | 1 | 40 | 20 | 80 | 4 | -40~+85 | -40~+85 | 1.7 | 2.0 | 10 | 100 | 4 | 660 | 10 | 0.33 |
| | N[G14]N[G24] | GaP(Pure Green) | 1 | 63 | 25 | 100 | 4 | -40~+85 | -40~+85 | 2.2 | 2.5 | 20 | 100 | 4 | 555 | 20 | 0.34 |
| | N[G14]P,N[G24]P | GaP(Green) | 1 | 63 | 25 | 100 | 4 | -40~+85 | -40~+85 | 2.2 | 2.5 | 20 | 100 | 4 | 565 | 20 | 0.34 |
| | N[G14]SP | GaP(Green) | 1 | 48 | 20 | 80 | 4 | -40~+85 | -40~+85 | 2.0 | 2.4 | 10 | 100 | 4 | 565 | 10 | 0.33 |
| | N[Y14]N[Y24] | GaAsP:GaP(Yellow) | 1 | 63 | 25 | 100 | 4 | -40~+85 | -40~+85 | 2.2 | 2.5 | 20 | 100 | 4 | 580 | 20 | 0.34 |
| | N[Y14]S | GaAsP:GaP(Yellow) | 1 | 48 | 20 | 80 | 4 | -40~+85 | -40~+85 | 2.0 | 2.4 | 10 | 100 | 4 | 580 | 10 | 0.33 |
| | N[A14]N[A24] | GaAsP:GaP(Orange) | 1 | 63 | 25 | 100 | 4 | -40~+85 | -40~+85 | 2.2 | 2.5 | 20 | 100 | 4 | 605 | 20 | 0.34 |
| | N[A14]S | GaAsP:GaP(Orange) | 1 | 48 | 20 | 80 | 4 | -40~+85 | -40~+85 | 2.0 | 2.4 | 10 | 100 | 4 | 605 | 10 | 0.33 |
| | NARG14 | GaAlAs(Red) GaP(Green) | 1 | 36 | 15 | 70 | 4 | -30~+70 | -30~+80 | 1.7 2.0 | 2.0 2.4 | 10 10 | 20 4 | 4 | 660 570 | 10 10 | 0.22 |
| 0.6" | N[R16]N[R26] | GaAlAs(Red) | 1 | 60 | 30 | 120 | 4 | -40~+85 | -40~+85 | 1.7 | 2.0 | 20 | 100 | 4 | 660 | 20 | 0.41 |
| | N[G16]N[G26] | GaP(Pure Green) | 1 | 63 | 25 | 100 | 4 | -40~+85 | -40~+85 | 2.2 | 2.5 | 20 | 100 | 4 | 555 | 20 | 0.34 |
| | N[G16]P,N[G26]P | GaP(Green) | 1 | 63 | 25 | 100 | 4 | -40~+85 | -40~+85 | 2.2 | 2.5 | 20 | 100 | 4 | 565 | 20 | 0.34 |
| | N[Y16]N[Y26] | GaAsP:GaP(Yellow) | 1 | 63 | 25 | 100 | 4 | -40~+85 | -40~+85 | 2.2 | 2.5 | 20 | 100 | 4 | 580 | 20 | 0.34 |
| | N[A16]N[A26] | GaAsP:GaP(Orange) | 1 | 63 | 25 | 100 | 4 | -40~+85 | -40~+85 | 2.2 | 2.5 | 20 | 100 | 4 | 605 | 20 | 0.34 |
| | NARG16 | GaAlAs(Red) GaP(Green) | 1 | 36 | 15 | 70 | 4 | -30~+70 | -30~+80 | 1.7 1.2 | 2.0 2.5 | 10 10 | 20 4 | 4 | 660 570 | 10 10 | 0.22 |
| 1.0" | N[R10] | GaAlAs(Red) | 2 | 120 | 30 | 120 | 8 | -20~+85 | -20~+85 | 3.4 | 4.0 | 20 | 100 | 8 | 660 | 20 | 0.41 |
| | N[G10] | GaP(Pure Green) | 2 | 126 | 25 | 100 | 8 | -20~+85 | -20~+85 | 4.4 | 5.0 | 20 | 100 | 8 | 555 | 20 | 0.34 |
| | N[G10]P | GaP(Green) | 2 | 126 | 25 | 100 | 8 | -20~+85 | -20~+85 | 4.4 | 5.0 | 20 | 100 | 8 | 565 | 20 | 0.34 |
| | N[Y10]Y | GaAsP:GaP(Yellow) | 2 | 126 | 25 | 100 | 8 | -20~+85 | -20~+85 | 4.4 | 5.0 | 20 | 100 | 8 | 580 | 20 | 0.34 |
| | N[A10] | GaAsP:GaP(Orange) | 2 | 126 | 25 | 100 | 8 | -20~+85 | -20~+85 | 4.4 | 5.0 | 20 | 100 | 8 | 605 | 20 | 0.34 |
| | NARG10 | GaAlAs(Red) GaP(Green) | 2 | 80 96 | 20 20 | 40 40 | 4 | -30~+70 | -30~+80 | 3.4 4.0 | 4.0 4.8 | 10 10 | 100 4 | 4 | 660 570 | 10 10 | 0.33 |
| Units | | | | mW | mA | mA | V | °C | V | mA | μA | V | nm | mA | mA/°C | | |

∴ Number of chips per segment

● Ratings and specifications are for one segment.

● When both colors of a bicolor LED are driven simultaneously, the rating of NARG types are the total of the Pd, If and IFM values.

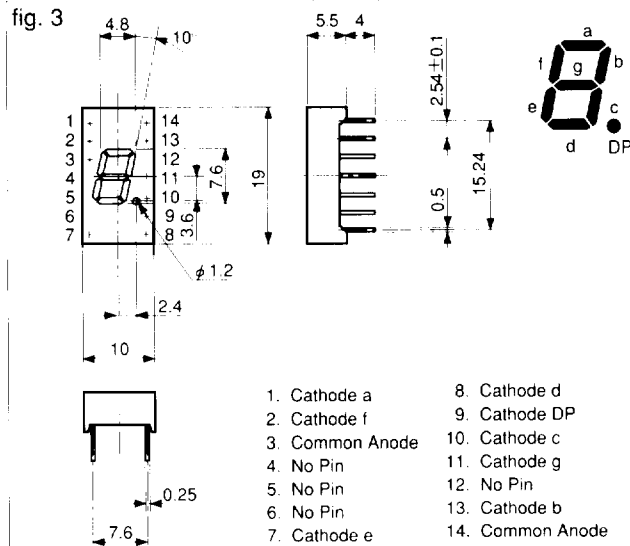
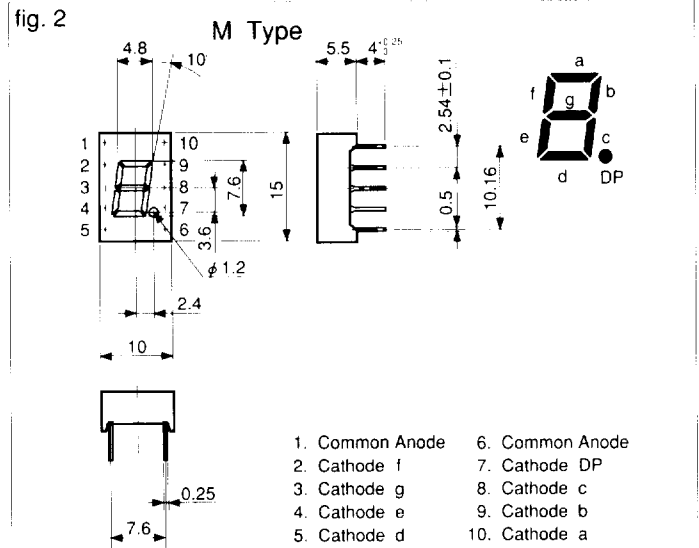
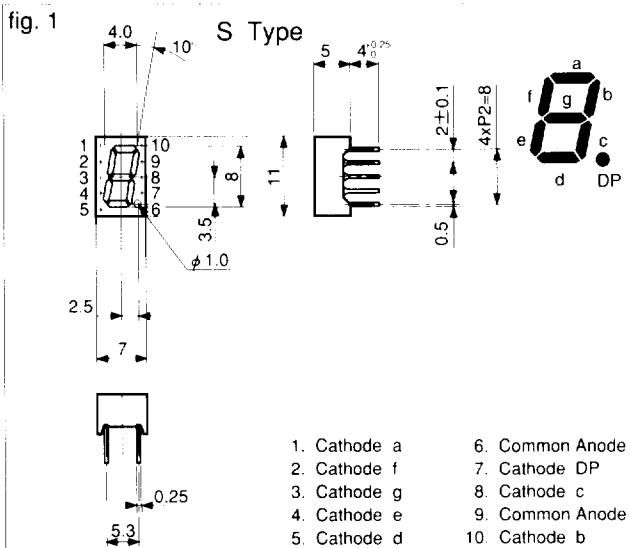


▼0.3 inch type

Ta=25°C

| Case Size (W×H) | Shape | Type No. | | Emitted Color | Luminous Intensity I _v | | | | | | fig. | |
|-------------------|-------|----------------|----------------|---------------|-----------------------------------|------|--------|------|--------|------|------|----------------|
| | | Anode Common | Cathode Common | | Rank A | | Rank B | | Rank C | | | |
| | | | | | MIN. | TYP. | MIN. | TYP. | MIN. | TYP. | | I _F |
| 7.0 × 11.0 | | NAR131S/133S | NKR131S/133S | Red | 0.7 | 1.4 | 1.4 | 2.8 | 2.8 | 5.6 | 10 | 1 |
| | | NAG131S/133S | NKG131S/133S | Pure Green | 0.2 | 0.4 | 0.4 | 0.8 | — | — | 10 | |
| | | NAG131SP/133SP | NKG131SP/133SP | Green | 0.5 | 1 | 1 | 2 | — | — | 10 | |
| | | NAY131S/133S | NKY131S/133S | Yellow | 0.3 | 0.6 | 0.6 | 1.2 | — | — | 10 | |
| | | NAA131S/133S | NKA131S/133S | Orange | 0.3 | 0.6 | 0.6 | 1.2 | — | — | 10 | |
| 10.0 × 15.0 | | NAR131ME/133ME | NKR131ME/133ME | Red | 0.6 | 1.2 | 1.2 | 2.4 | — | — | 10 | 2 |
| | | NAG131M/133M | NKG131M/133M | Pure Green | 0.1 | 0.2 | 0.2 | 0.4 | — | — | 10 | |
| | | NAG131MP/133MP | NKG131MP/133MP | Green | 0.3 | 0.6 | 0.6 | 1.2 | — | — | 10 | |
| | | NAY131M/133M | NKY131M/133M | Yellow | 0.2 | 0.4 | 0.4 | 0.8 | — | — | 10 | |
| | | NAA131M/133M | NKA131M/133M | Orange | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 10 | |
| 10.0 × 19.0 | | NAR131/133 | NKR131/133 | Red | 0.15 | 0.3 | 0.3 | 0.6 | — | — | 10 | 3 |
| | | NAG131/133 | NKG131/133 | Pure Green | 0.1 | 0.2 | 0.2 | 0.4 | — | — | 10 | |
| | | NAG131P/133P | NKG131P/133P | Green | 0.3 | 0.6 | 0.6 | 1.2 | — | — | 10 | |
| | | NAY131/133 | NKY131/133 | Yellow | 0.2 | 0.4 | 0.4 | 0.8 | — | — | 10 | |
| | | NAA131/133 | NKA131/133 | Orange | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 10 | |
| mm | | Units | | | mcd | | | | | | mA | |

▼DIMENSIONS Unit : mm





- Common cathode types have a reverse polarity
- General tolerance: ±0.25 mm.

SUPER BRIGHT LED NUMERIC DISPLAY

▼0.4 inch type

Ta=25°C

| Case Size (W×H) | Shape | Type No. | Emitted Color | Luminous Intensity I _v | | | | | | I _F | fig. |
|-------------------|---|--------------|---------------|-----------------------------------|------|--------|------|--------|------|----------------|------|
| | | | | Rank A | | Rank B | | Rank C | | | |
| | | | | MIN. | TYP. | MIN. | TYP. | MIN. | TYP. | | |
| 12.5 × 19.0 | Square shape type  | NSR141/143 | Red | 2 | 4 | 4 | 8 | 8 | 11 | 20 | 4 |
| | | NSG141/143 | Pure Green | 0.5 | 1 | 1 | 2 | — | — | 20 | |
| | | NSG141P/143P | Green | 0.5 | 1 | 1 | 2 | — | — | 20 | |
| | | NSY141/143 | Yellow | 1.5 | 3 | 3 | 6 | — | — | 20 | |
| | | NSA141/143 | Orange | 1.5 | 3 | 3 | 6 | — | — | 20 | |
| 12.5 × 19.0 | Arrow feather type  | NSR145/147 | Red | 1.6 | 3.2 | 3.2 | 6.4 | 6.4 | 8.8 | 20 | 5 |
| | | NSG145/147 | Pure Green | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 20 | |
| | | NSG145P/147P | Green | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 20 | |
| | | NSY145/147 | Yellow | 1.2 | 2.4 | 2.4 | 4.8 | — | — | 20 | |
| | | NSA145/147 | Orange | 1.2 | 2.4 | 2.4 | 4.8 | — | — | 20 | |
| mm | | | | | | | | | | | |

▼DIMENSIONS Unit : mm

fig. 4

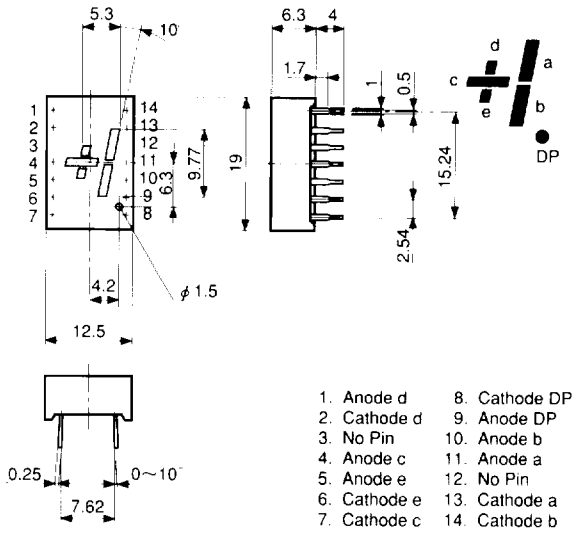
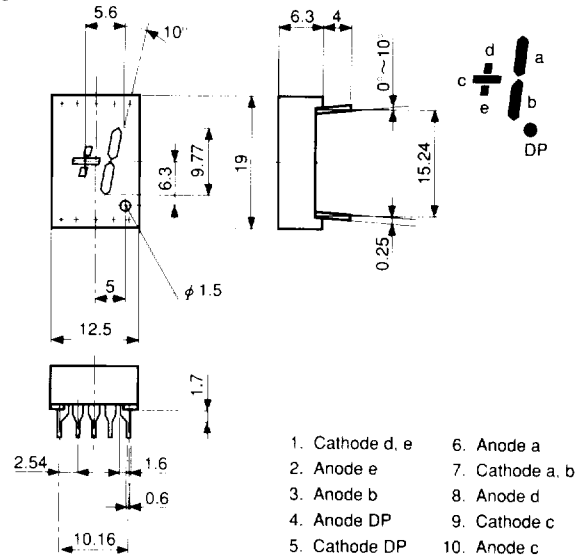


fig. 5



● General tolerance: ±0.25 mm.



▼0.4 inch type

Ta=25°C

| Case Size (W×H) | Shape | Type No. | | Emitted Color | Luminous Intensity Iv | | | | | | fig. | |
|-------------------|------------------------|----------------|----------------|---------------|-----------------------|------|--------|------|--------|------|------|----|
| | | Anode Common | Cathode Common | | Rank A | | Rank B | | Rank C | | | |
| | | | | | MIN. | TYP. | MIN. | TYP. | MIN. | TYP. | | If |
| 10.0 × 13.0 | Arrow feather type | NAR141S/143S | NKR141S/143S | Red | 0.8 | 1.6 | 1.6 | 3.2 | 3.2 | 6.4 | 10 | 6 |
| | | NAG141S/143S | NKG141S/143S | Pure Green | 0.2 | 0.4 | 0.4 | 0.8 | — | — | 10 | |
| | | NAG141SP/143SP | NKG141SP/143SP | Green | 0.3 | 0.6 | 0.6 | 1.2 | — | — | 10 | |
| | | NAY141S/143S | NKY141S/143S | Yellow | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 10 | |
| | | NAA141S/143S | NKA141S/143S | Orange | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 10 | |
| | | NAR141/143 | NKR141/143 | Red | 2 | 4 | 4 | 8 | 8 | 11 | 20 | |
| 12.5 × 19.0 | Arrow feather type | NAG141/143 | NKG141/143 | Pure Green | 0.5 | 1 | 1 | 2 | — | — | 20 | 7 |
| | | NAG141P/143P | NKG141P/143P | Green | 0.5 | 1 | 1 | 2 | — | — | 20 | |
| | | NAY141/143 | NKY141/143 | Yellow | 1.5 | 3 | 3 | 6 | — | — | 20 | |
| | | NAA141/143 | NKA141/143 | Orange | 1.5 | 3 | 3 | 6 | — | — | 20 | |
| | | NAR145/147 | NKR145/147 | Red | 1.6 | 3.2 | 3.2 | 6.4 | 6.4 | 8.8 | 20 | |
| | | NAG145/147 | NKG145/147 | Pure Green | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 20 | |
| 12.5 × 19.0 | Arrow feather type | NAG145P/147P | NKG145P/147P | Green | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 20 | 8 |
| | | NAY145/147 | NKY145/147 | Yellow | 1.2 | 2.4 | 2.4 | 4.8 | — | — | 20 | |
| | | NAA145/147 | NKA145/147 | Orange | 1.2 | 2.4 | 2.4 | 4.8 | — | — | 20 | |
| | | | | | | | | | | | | |
| mm | | Units | | | mcd | | | | | | mA | |

▼DIMENSIONS Unit : mm

fig. 6

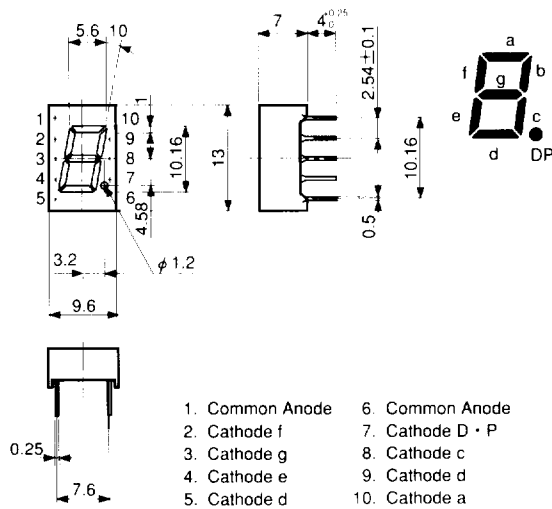


fig. 7

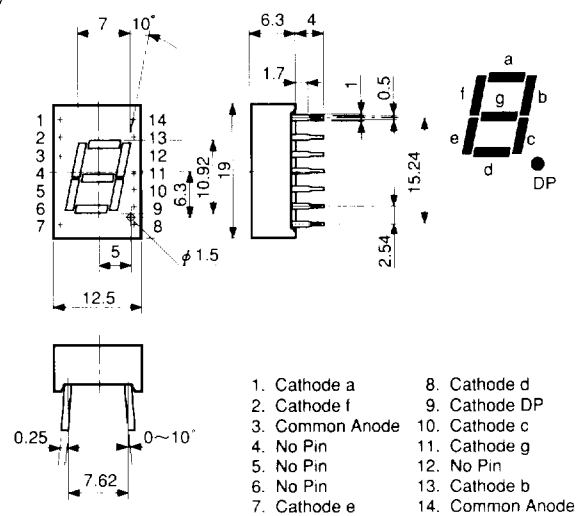
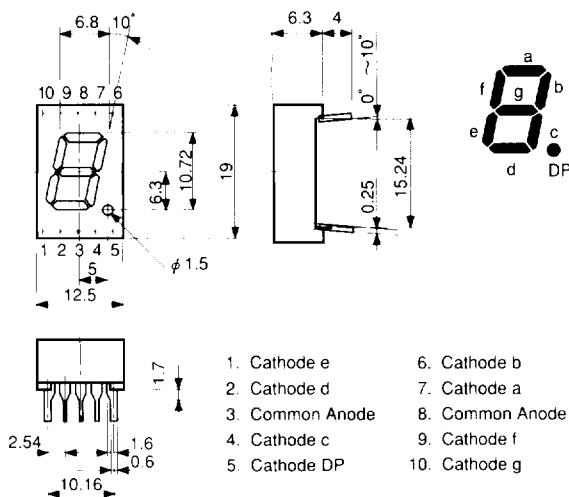


fig. 8



- Common cathode types have a reverse polarity
- General tolerance: ±0.25 mm.

SUPER BRIGHT LED NUMERIC DISPLAY

▼0.4 inch type

Ta=25°C

| Case Size (W×H) | Shape | Type No. | | Emitted Color | Luminous Intensity Iv | | | | | | | If | fig. |
|-------------------|--------------------|----------------|----------------|---------------|-----------------------|------|--------|------|--------|------|----|----|------|
| | | Anode Common | Cathode Common | | Rank A | | Rank B | | Rank C | | | | |
| | | | | | MIN. | TYP. | MIN. | TYP. | MIN. | TYP. | | | |
| 25.2 × 19.0 | Square shape type | NAR241/243 | NKR241/243 | Red | 2 | 4 | 4 | 8 | 8 | 11 | 20 | 9 | |
| | | NAG241/243 | NKG241/243 | Pure Green | 0.5 | 1 | 1 | 2 | — | — | 20 | | |
| | | NAG241P/243P | NKG241P/243P | Green | 0.5 | 1 | 1 | 2 | — | — | 20 | | |
| | | NAY241/243 | NKY241/243 | yellow | 1.5 | 3 | 3 | 6 | — | — | 20 | | |
| | | NAA241/243 | NKA241/243 | Orange | 1.5 | 3 | 3 | 6 | — | — | 20 | | |
| 25.2 × 19.0 | Arrow feather type | NAR245F/247F | NKR245F/247F | Red | 1.6 | 3.2 | 3.2 | 6.4 | 6.4 | 8.8 | 20 | 10 | |
| | | NAG245F/247F | NKG245F/247F | Pure Green | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 20 | | |
| | | NAG245FP/247FP | NKG245FP/247FP | Green | 0.4 | 0.8 | 0.8 | 1.6 | — | — | 20 | | |
| | | NAY245F/247F | NKY245F/247F | Yellow | 1.2 | 2.4 | 2.4 | 4.8 | — | — | 20 | | |
| | | NAA245F/247F | NKA245F/247F | Orange | 1.2 | 2.4 | 2.4 | 4.8 | — | — | 20 | | |

▼DIMENSIONS Unit : mm

fig. 9

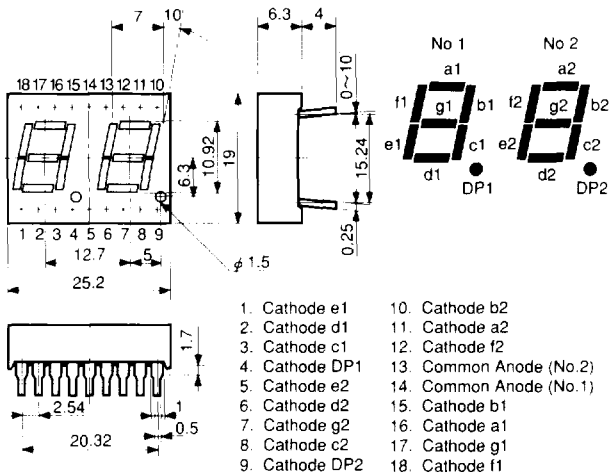
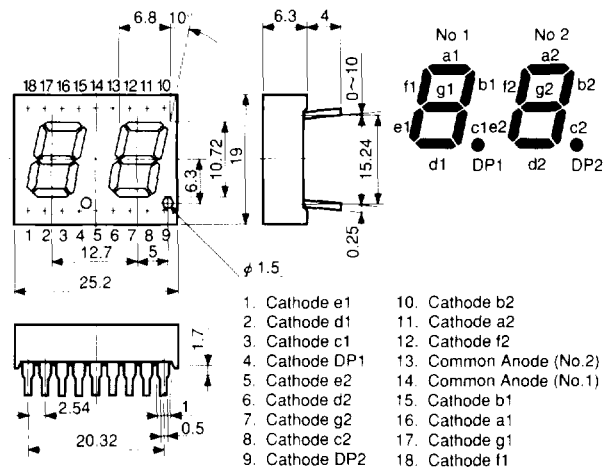


fig. 10



- Common cathode types have a reverse polarity
- General tolerance: ±0.25 mm.

▼0.6 inch type

Ta=25°C

| Case Size (W×H) | Shape | Type No. | | Emitted Color | Luminous Intensity I _v | | | | | | | fig. |
|-------------------|------------------------|--------------|----------------|---------------|-----------------------------------|------|--------|------|--------|------|----------------|------|
| | | Anode Common | Cathode Common | | Rank A | | Rank B | | Rank C | | I _F | |
| | | | | | MIN. | TYP. | MIN. | TYP. | MIN. | TYP. | | |
| 12.5 × 17.0 | Arrow feather type | NSR161/163 | | Red | 3 | 6 | 6 | 12 | 12 | 15 | 20 | 11 |
| | | NSG161/163 | | Pure Green | 1 | 2 | 2 | 4 | — | — | 20 | |
| | | NSG161P/163P | | Green | 1 | 2 | 2 | 4 | — | — | 20 | |
| | | NSY161/163 | | Yellow | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NSA161/163 | | Orange | 2 | 4 | 4 | 8 | — | — | 20 | |
| 12.5 × 19.0 | Arrow feather type | NAR161/163 | | Red | 3 | 6 | 6 | 12 | 12 | 15 | 20 | 12 |
| | | NAG161/163 | | Pure Green | 1 | 2 | 2 | 4 | — | — | 20 | |
| | | NAG161P/163P | | Green | 1 | 2 | 2 | 4 | — | — | 20 | |
| | | NAY161/163 | | Yellow | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NAA161/163 | | Orange | 2 | 4 | 4 | 8 | — | — | 20 | |
| 25.2 × 19.0 | Arrow feather type | NAR261/263 | | Red | 3 | 6 | 6 | 12 | 12 | 15 | 20 | 13 |
| | | NAG261/263 | | Pure Green | 1 | 2 | 2 | 4 | — | — | 20 | |
| | | NAG261P/263P | | Green | 1 | 2 | 2 | 4 | — | — | 20 | |
| | | NAY261/263 | | Yellow | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NAA261/263 | | Orange | 2 | 4 | 4 | 8 | — | — | 20 | |

▼DIMENSIONS Unit : mm

fig. 11

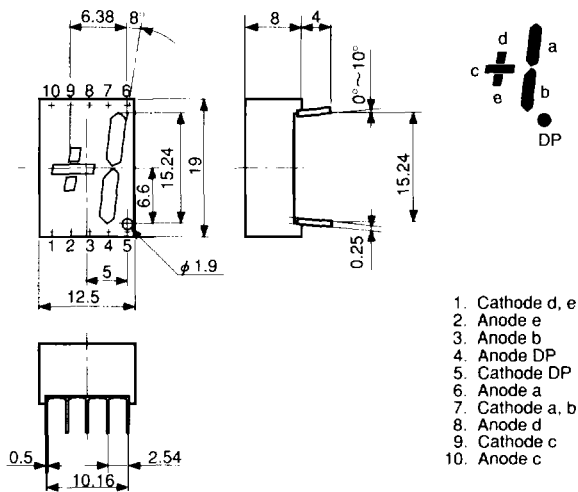
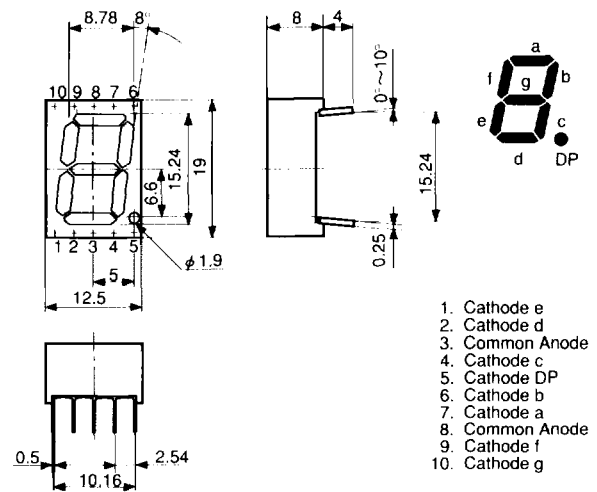
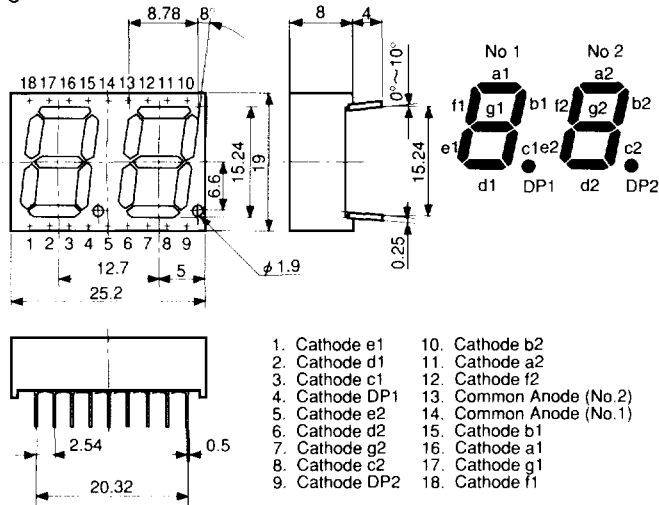


fig. 12



● Common cathode types shown in fig. 11 and 12 have a reverse polarity
● General tolerance: ±0.25 mm.




fig. 13



SUPER BRIGHT LED NUMERIC DISPLAY

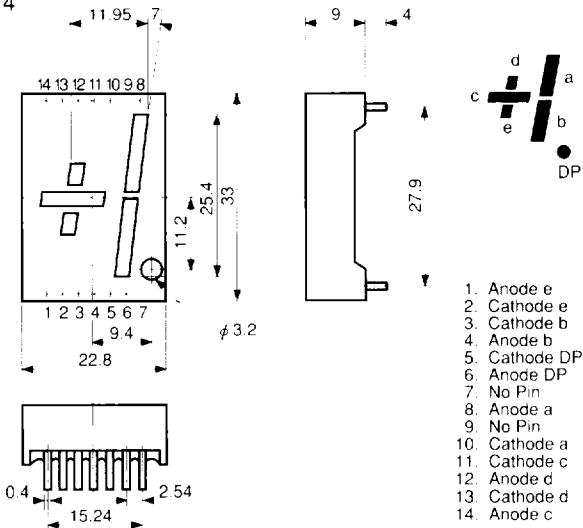
▼ 1.0 inch type

Ta=25°C

| Case Size (W×H) | Shape | Type No. | | Emitted Color | Luminous Intensity I _v | | | | | | fig. | |
|-------------------|---|--------------|----------------|---------------|-----------------------------------|------|--------|------|--------|------|----------------|----|
| | | Anode Common | Cathode Common | | Rank A | | Rank B | | Rank C | | | |
| | | | | | MIN. | TYP. | MIN. | TYP. | MIN. | TYP. | I _F | |
| 22.8 × 33.0 | Square shape type  | NSR101/103 | | Red | 5 | 10 | 10 | 20 | 20 | 25 | 20 | 14 |
| | | NSG101/103 | | Pure Green | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NSG101P/103P | | Green | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NSY101/103 | | Yellow | 3 | 6 | 6 | 12 | — | — | 20 | |
| | | NSA101/103 | | Orange | 4 | 8 | 8 | 16 | — | — | 20 | |
| 22.8 × 33.0 | Square shape type  | NAR101/103 | | Red | 5 | 10 | 10 | 20 | 20 | 25 | 20 | 15 |
| | | NAG101/103 | | Pure Green | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NAG101P/103P | | Green | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NAY101/103 | | Yellow | 3 | 6 | 6 | 12 | — | — | 20 | |
| | | NAA101/103 | | Orange | 4 | 8 | 8 | 16 | — | — | 20 | |
| 22.8 × 33.0 | Arrow feather type  | NAR105/107 | | Red | 5 | 10 | 10 | 20 | 20 | 25 | 20 | 16 |
| | | NAG105/107 | | Pure Green | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NAG105P/107P | | Green | 2 | 4 | 4 | 8 | — | — | 20 | |
| | | NAY105/107 | | Yellow | 3 | 6 | 6 | 12 | — | — | 20 | |
| | | NAA105/107 | | Orange | 4 | 8 | 8 | 16 | — | — | 20 | |
| mm | | Units | | | mcd | | | | | | mA | |

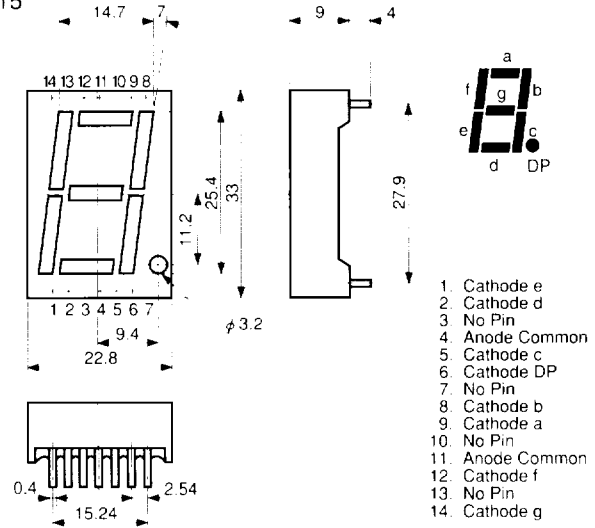
▼ DIMENSIONS Unit : mm

fig. 14



1. Anode e
2. Cathode e
3. Cathode b
4. Anode b
5. Cathode DP
6. Anode DP
7. No Pin
8. Anode a
9. No Pin
10. Cathode a
11. Cathode c
12. Anode d
13. Cathode d
14. Anode c

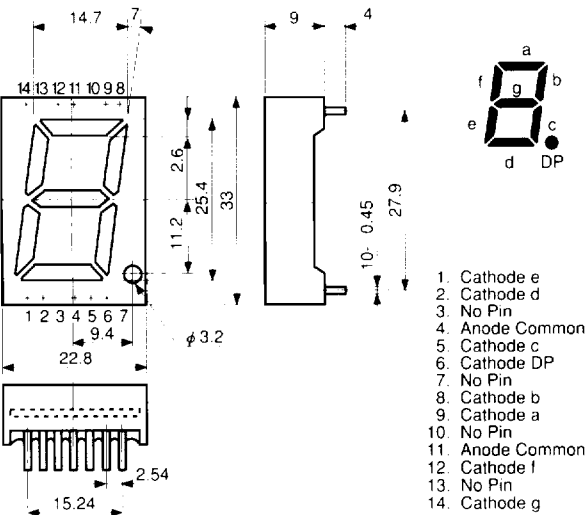
fig. 15



1. Cathode e
2. Cathode d
3. No Pin
4. Anode Common
5. Cathode c
6. Cathode DP
7. No Pin
8. Cathode b
9. Cathode a
10. No Pin
11. Anode Common
12. Cathode f
13. No Pin
14. Cathode g

- Common cathode types shown in fig. 14 and 15 have a reverse polarity
- General tolerance: ±0.25 mm.

fig. 16



1. Cathode e
2. Cathode d
3. No Pin
4. Anode Common
5. Cathode c
6. Cathode DP
7. No Pin
8. Cathode b
9. Cathode a
10. No Pin
11. Anode Common
12. Cathode f
13. No Pin
14. Cathode g



▼ Bicolor LEDs for numeric displays 0.4/0.6/1.0 inch type

Ta=25°C

| Case Size (W×H) | Shape | Type No. | | Emitted Color | Luminous Intensity I _v | | | fig. |
|-------------------|------------------------|--------------|----------------|---------------|-----------------------------------|------|----------------|------|
| | | Anode Common | Cathode Common | | MIN. | TYP. | I _F | |
| 10.0 × 19.0 | Arrow feather type | NARG141/143 | NKRG141/143 | Red | 1.2 | 2.4 | 10 | 17 |
| | | | | Green | 1.2 | 2.4 | 10 | |
| 12.5 × 19.0 | Arrow feather type | NARG161/163 | NKRG161/163 | Red | 1.2 | 2.4 | 10 | 18 |
| | | | | Green | 1.2 | 2.4 | 10 | |
| 22.8 × 33.0 | Arrow feather type | NARG105/107 | NKRG105/107 | Red | 2 | 4 | 10 | 19 |
| | | | | Green | 2 | 4 | 10 | |
| mm | | Units | | | mcd | | mA | |

▼ DIMENSIONS Unit : mm

fig. 17

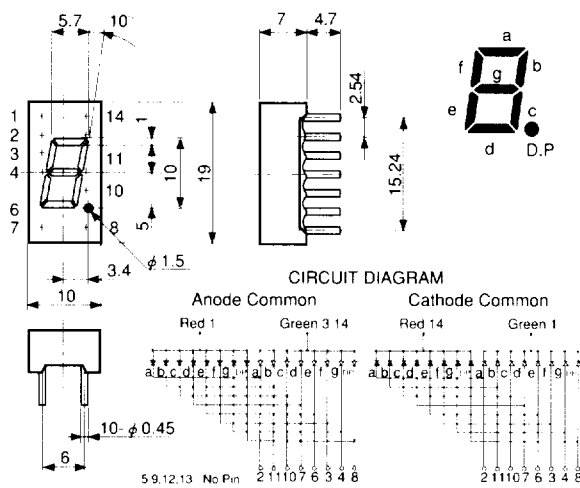


fig. 18

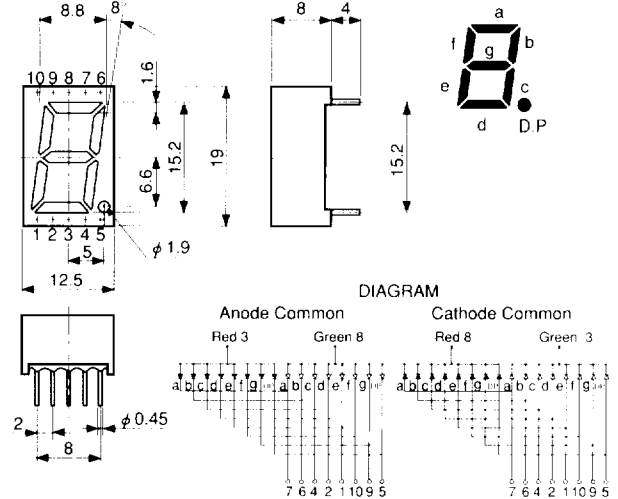
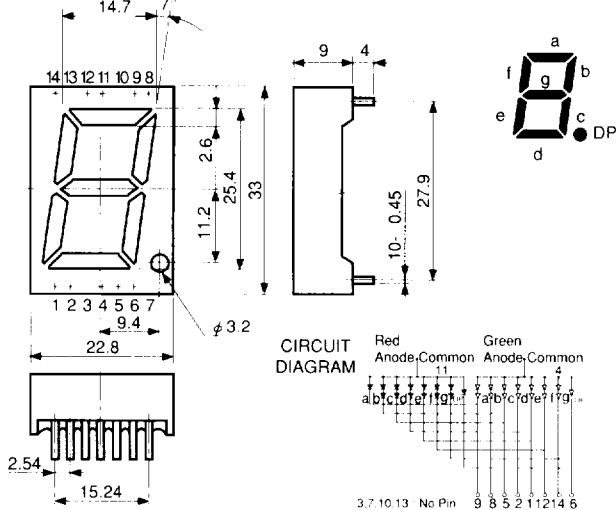


fig. 19



● General tolerance: ±0.25 mm.