

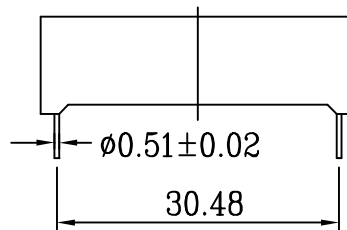
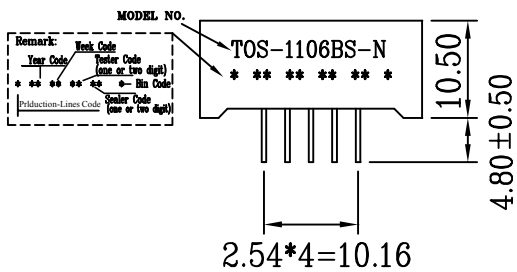
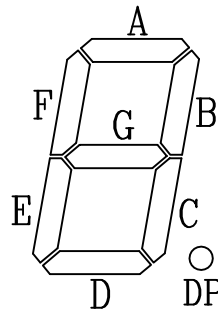
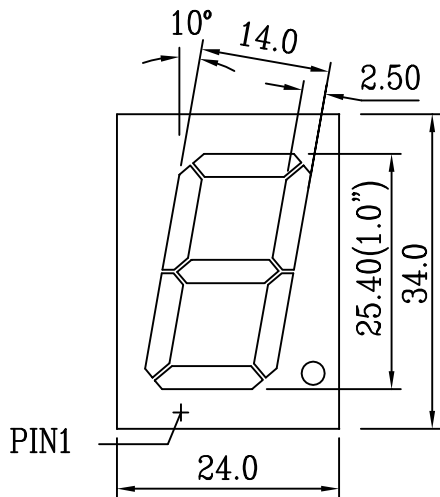


TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-1106BS-B

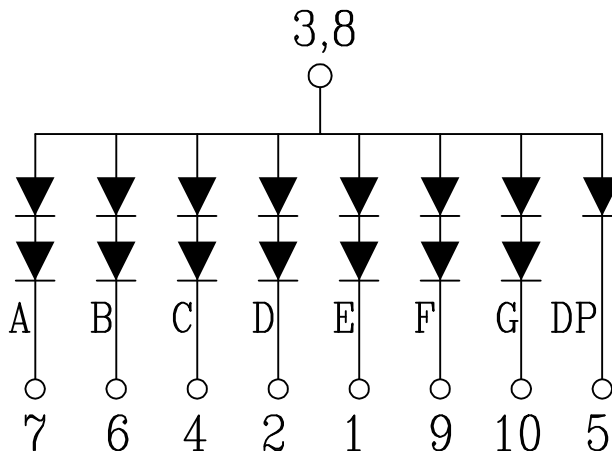
| | | | | |
|------------|---------|-------------|--------------|-----------------|
| APPEARANCE | | | TECHNOLOGIE | GaAlAs/GaAs |
| FACE | SEGMENT | PIN | SOURCE COLOR | Super-Red |
| Black | White | ∅0.51x10.28 | DRIVER MODE | Com.Anode |
| | | | PACKING | "F" Plastic Box |

PACKAGE DIMENSIONS



NORMAL TOLERANCE: ±0.25 ANGLE: ±1°

INTERNAL CIRCUIT DIAGRAM



| | | | | | | | | | |
|------|-----------|-----------|-----|-------------|--------------|----------|-----|----------|--|
| DATE | 09/27/06' | SCALE | 2:1 | DRAWING NO. | S-1106BS-B-A | DRAWN | X.F | CHECKED | |
| UNIT | M/M | SHEET NO. | 1/2 | | | CUSTOMER | | APPROVED | |



TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-1106BS-B

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

| PARAMETER | VALUE | UNITS |
|--|------------------|-------|
| Power Dissipation Per Segment(Except DP) | 120 | mW |
| Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width) | 80 | mA |
| Continuous Forward Current Per Segment | 20 | mA |
| Recommend Operating Current | 15 | mA |
| Reverse Voltage Per Segment(Except DP) | 10 | V |
| Operating Temperature Range | -25 to +85 | °C |
| Storage Temperature Range | -30 to +85 | °C |
| Junction Temperature | +85 | °C |
| Storage Time at 25±2°C / 65%RH±5%RH | 6 | Month |
| Lead Free Solder Temperature(1/16 Inch Below Seating Plane) | 260°C for 3 sec. | |

ELECTRICAL/OPTICAL CHARACTERISTICS AT TA=25°C

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNITS | TEST CONDITION | GRADE |
|--|-------------------|-------|-------|-------|-------|----------------------|-------|
| Luminous Intensity Per Segment | I _v | 13500 | 15524 | 17549 | μcd | I _F =10mA | R |
| Luminous Intensity Per Segment | I _v | 17550 | 21937 | 26325 | μcd | I _F =10mA | S |
| Luminous Intensity Per Segment | I _v | 26326 | 32907 | 39489 | μcd | I _F =10mA | T |
| Peak Emission Wavelength | λ _p | | 660 | | nm | I _F =20mA | |
| Spectral Line Half-Width | Δλ | | 20 | | nm | I _F =20mA | |
| Forward Voltage Per Segment (Except Dp) | V _F | 3.4 | 3.6 | 4.0 | V | I _F =20mA | |
| Reverse Current Per Segment (Except DP) | I _R | | | 20 | μA | V _R =10V | |
| Luminous Intensity Matching Rate | I _v -m | | | 1.5:1 | | I _F =20mA | |

Notes: Above specification may be changed without notice.

| | | | | | | | | | |
|------|-----------|-----------|-----|-------------|--------------|----------|-----|----------|--|
| DATE | 09/27/06' | SCALE | ——— | DRAWING NO. | S-1106BS-B-A | DRAWN | X.F | CHECKED | |
| UNIT | ——— | SHEET NO. | 2/2 | | | CUSTOMER | | APPROVED | |