

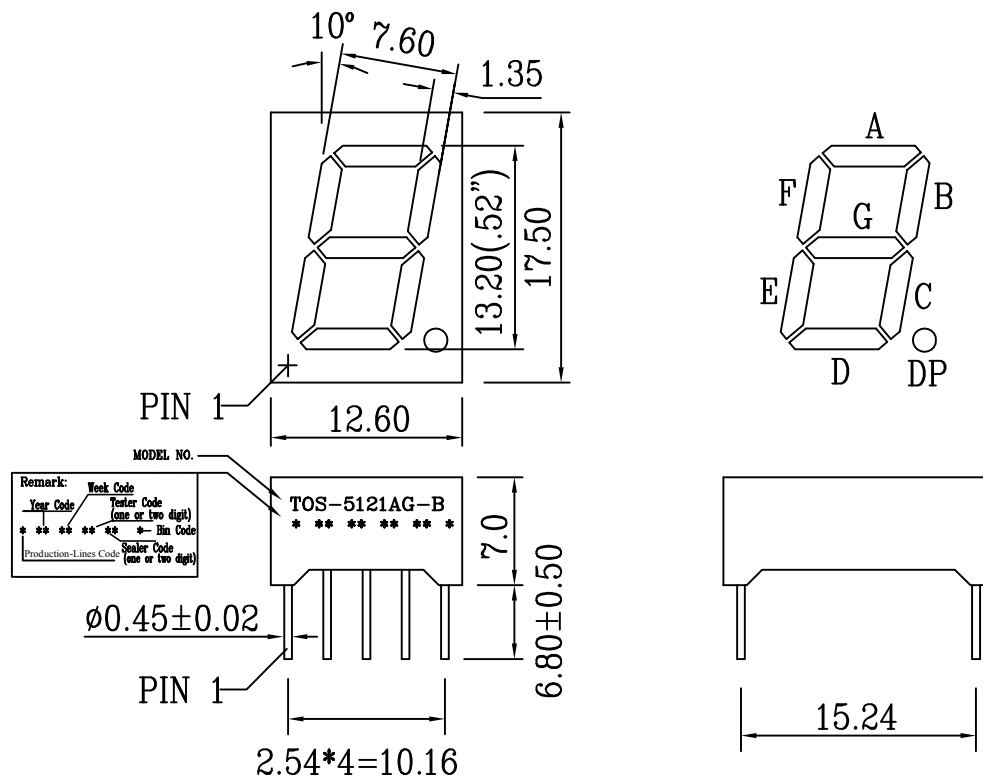


TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-5121AG-B

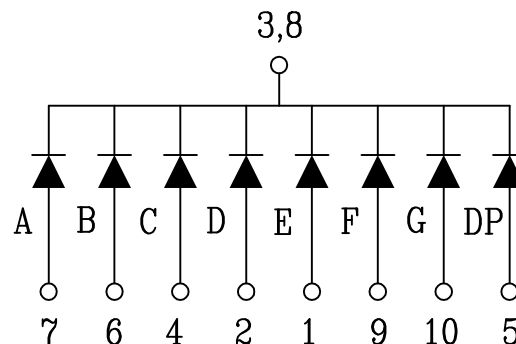
| | | | | |
|------------|---------|-------------|--------------|------------------|
| APPEARANCE | | | TECHNOLOGIE | GaP |
| FACE | SEGMENT | PIN | SOURCE COLOR | Green |
| Black | White | ∅0.45x10.28 | DRIVER MODE | Com. Cathode |
| | | | PACKING | "ML" Plastic Box |

PACKAGE DIMENSIONS



NOMARL TOLERANCE: ± 0.25 ANGLE: $\pm 1^\circ$

INTERNAL CIRCUIT DIAGRAM



| | | | | | | | | | |
|------|-----------|-----------|-----|-------------|--------------|----------|-----------|----------|--|
| DATE | 03/22/06' | SCALE | 2:1 | DRAWING NO. | S-5121AG-B-A | DRAWN | Y.P/Q.C.F | CHECKED | |
| UNIT | M/M | SHEET NO. | 1/2 | | | CUSTOMER | | APPROVED | |



TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-5121AG-B

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

| PARAMETER | VALUE | UNITS |
|--|------------------|-------|
| Power Dissipation Per Segment | 75 | 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 | 12 | mA |
| Reverse Voltage Per Segment | 5 | 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 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 | 2501 | 3000 | 3500 | μcd | I _F =10mA | G |
| Luminous Intensity Per Segment | I _V | 3501 | 4113 | 4725 | μcd | I _F =10mA | H |
| Luminous Intensity Per Segment | I _V | 4726 | 5435 | 6144 | μcd | I _F =10mA | K |
| Peak Emission Wavelength | λ _P | | 570 | | nm | I _F =20mA | |
| Spectral Line Half-Width | Δλ | | 30 | | nm | I _F =20mA | |
| Forward Voltage Per Segment | V _F | 1.9 | 2.2 | 2.5 | V | I _F =20mA | |
| Reverse Current Per Segment | I _R | | | 20 | μA | V _R =5V | |
| Luminous Intensity Matching Rate | I _V -m | | | 1.5:1 | | I _F =20mA | |

Notes: Above specification may be changed without notice.

| | | | | | | | | | |
|------|-----------|-----------|-------|-------------|--------------|----------|-------------|----------|--|
| DATE | 03/22/06' | SCALE | _____ | DRAWING NO. | S-5121AG-B-A | DRAWN | Y.P./Q.C.F' | CHECKED | |
| UNIT | _____ | SHEET NO. | 2/2 | | | CUSTOMER | | APPROVED | |