

DESCRIPTION

This series of solid state indicators are 1.4mm x 3.7mm rectangular bars package.

MRB77D is a GaAsP/GaAs red chip with red diffused lens.

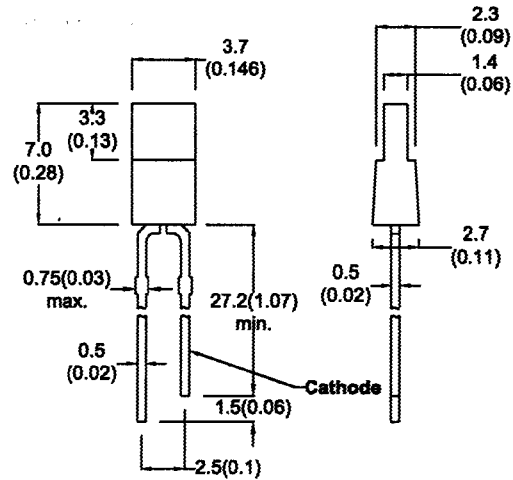
MSB77D is a GaP/GaP red chip with red diffused lens.

MGB77D is a GaP/GaP green chip with green diffused lens.

MYB77D is a GaAsP/GaP yellow chip with yellow diffused lens.

MOB77D is a GaAsP/GaP orange chip with orange diffused lens.

MOB77DR is high efficiency red chip with red diffused lens.



- All dimension in mm(inch)
- No Scale
- Tol. : +/-0.3mm

ABSOLUTE MAXIMUM RATINGS

| | M R B 7 7 D | M S B 7 7 D | M O B 7 7 D R | M G B 7 7 D | M O Y B 7 7 D | M O Y B 7 7 D | UNIT |
|--|----------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|---------------------------------|------|
| Power Dissipation @ Ta=25°C | 80 | 40 | 100 | 100 | 100 | 60 | mW |
| Forward Current, DC (IF) | 40 | 15 | 30 | 30 | 30 | 20 | mA |
| Reverse Voltage | 5 | 5 | 5 | 5 | 5 | 5 | V |
| Operating & Storage Temperature Range | -55 to +100 | | | | | | °C |
| Lead Soldering Temperature (1/16" from body) | 260 | | | | | | °C |

ELECTRO-OPTICAL CHARACTERISTIC (Ta=25°C)

| PARAMETER | | S Y M B O L | M R B 7 7 D | M S B 7 7 D | M O B 7 7 D R | M G B 7 7 D | M O Y B 7 7 D | M O Y B 7 7 D | U N I T | CONDITIONS |
|---------------------------|-----|----------------------------|----------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|---------------------------------|------------------|------------|
| Forward Voltage | MAX | VF | 2.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | V | IF=20mA |
| Reverse Breakdown Voltage | MIN | BVR | 5 | 5 | 5 | 5 | 5 | 5 | V | IR=100µA |
| Luminous Intensity | MIN | IV | 0.3 | 0.4* | 1.8 | 2.2 | 1.8 | 1.6 | mcd | IF=20mA |
| | TYP | | 0.4 | 0.5* | 3.0 | 3.8 | 3.0 | 2.2 | mcd | IF=20mA |
| Peak Wavelength | TYP | λp | 660 | 700 | 640 | 570 | 630 | 595 | nm | IF=20mA |
| Spectral Line Half Width | TYP | Δλ | 20 | 100 | 40 | 30 | 40 | 35 | nm | IF=20mA |
| Viewing Angle | TYP | 2θ 1/2 | 172 | 172 | 172 | 172 | 172 | 172 | degree | IF=20mA |

* IV @ IF=10mA.



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