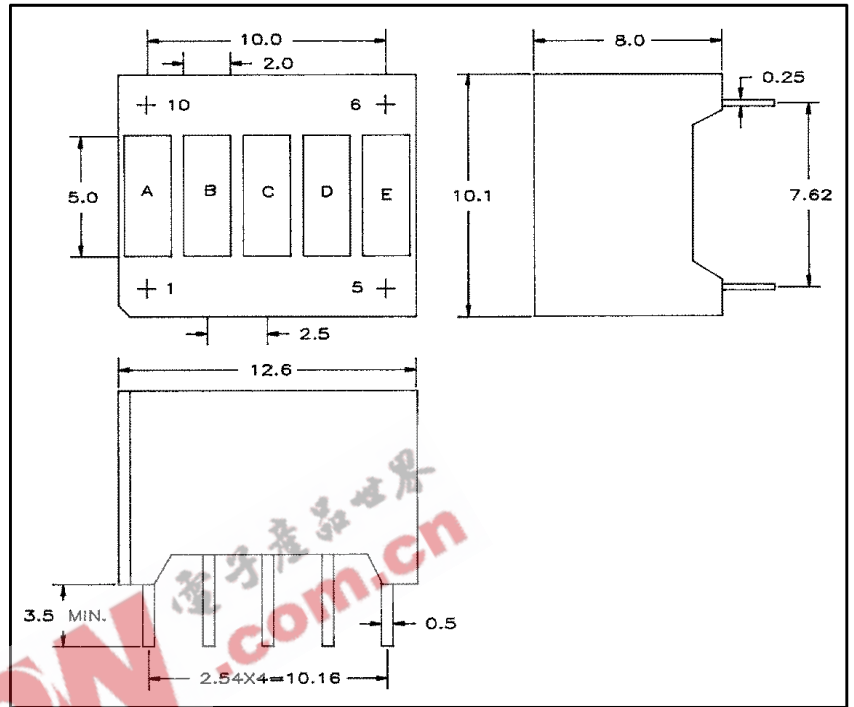


Features

Solid state reliability



Series Line-Up

| Part Number | Color | Material |
|-------------|---------------------|----------|
| MTB5000-G | Yellow Green | GaP |
| MTB5000-HR | High Efficiency Red | GaAsP |
| MTB5000-O | High Efficiency Red | GaAsP |
| MTB5000-RG | Red | GaP |
| MTB5000-UR | Ultra Bright Red | GaAlAs |
| MTB5000-Y | Pure Yellow | GaAsP |

Maximum Ratings (Ta=25°C)

| Part Number | Forward Current I _F | Reverse Voltage V _R | Power Dissipation P _D | Operating Temperature T _{opr} | Storage Temperature T _{stg} |
|-------------|-----------------------------------|-----------------------------------|-------------------------------------|---|---|
| MTB5000-G | 30 | 5 | 85.00 | -25 ~ +85 | -25 ~ +100 |
| MTB5000-HR | 30 | 5 | 85.00 | -25 ~ +85 | -25 ~ +100 |
| MTB5000-O | 30 | 5 | 85.00 | -25 ~ +85 | -25 ~ +100 |
| MTB5000-RG | 30 | 5 | 85.00 | -25 ~ +85 | -25 ~ +100 |
| MTB5000-UR | 30 | 4 | 70.00 | -25 ~ +85 | -25 ~ +100 |
| MTB5000-Y | 30 | 5 | 85.00 | -25 ~ +85 | -25 ~ +100 |
| Unit | mA | V | mW | °C | °C |

Electrical and Optical Characteristics (Ta=25°C)

| Part Number | PWL nm λ_P | Material | View Angle $2\theta_{1/2}$ | Luminous Intensity I_v | | | | Forward Voltage V_F | | | | Rev Current I_R | |
|-------------|-----------------------|----------|-------------------------------|-----------------------------|-------|------|------|--------------------------|------|------|------|----------------------|-----|
| | | | | min. | typ. | max. | IF@ | min. | typ. | max. | IF@ | max. | VR@ |
| MTB5000-G | 567 | GaP | - | - | 34.00 | - | 10mA | - | 2.10 | 3.00 | 20mA | 100 | 5V |
| MTB5000-HR | 635 | GaAsP | - | - | 39.00 | - | 10mA | - | 2.10 | 3.00 | 20mA | 100 | 5V |
| MTB5000-O | 635 | GaAsP | - | - | 39.00 | - | 10mA | - | 2.10 | 3.00 | 20mA | 100 | 5V |
| MTB5000-RG | 700 | GaP | - | - | 9.00 | - | 10mA | - | 2.10 | 3.00 | 20mA | 100 | 5V |
| MTB5000-UR | 660 | GaAlAs | - | - | 34.20 | - | 20mA | - | 1.90 | 2.50 | 20mA | 100 | 4V |
| MTB5000-Y | 585 | GaAsP | - | - | 28.00 | - | 10mA | - | 2.10 | 3.00 | 20mA | 100 | 5V |
| - | nm | - | deg | mcd | | | | - | V | | - | μA | - |

NOTES:

- All Dimensions are in millimeters.
- Tolerance is $\pm 0.25\text{mm}$ unless otherwise stated.
- The slope angle of any pin may be $\pm 5.0^\circ$ MAX.
- Specifications are subject to change without notice.