

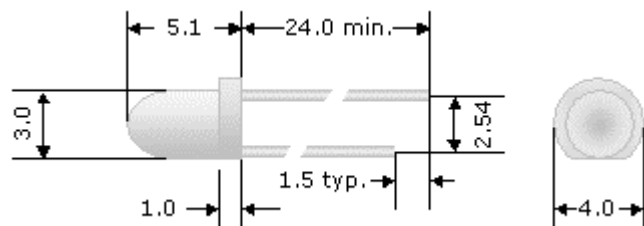


# OSHINO LAMPS

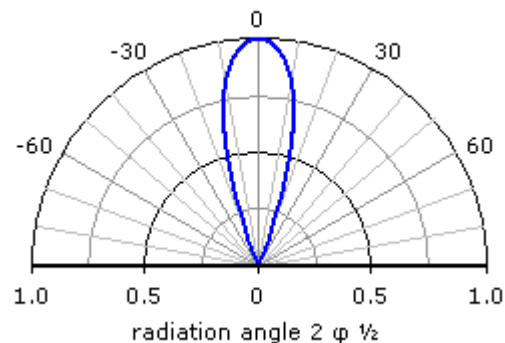
Lighted Products since 1931

## Product ESR 30030

discrete diodes 3 mm  
color red



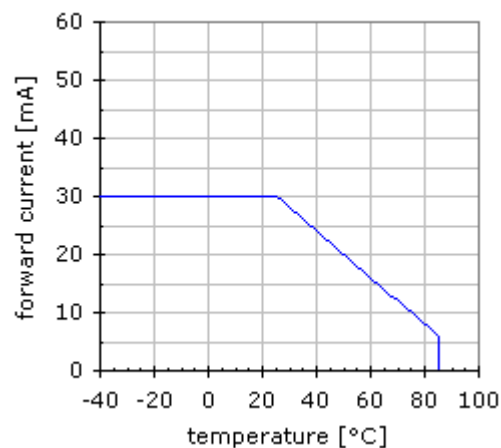
|                                  |                      |
|----------------------------------|----------------------|
| product-catalog                  | discrete diodes 3 mm |
| color                            | red                  |
| part no                          | ESR 30030            |
| peak wavelength $\lambda_p$ [nm] | 660                  |
| Iv [mcd] @ 20 mA min             | 400                  |
| Iv [mcd] @ 20 mA typ             | 800                  |
| radiation angle $2\phi_{1/2}$    | 30                   |
| chip construction                | GaAlAs               |
| forward voltage typ. [V]         | 1.9                  |
| case color                       | waterclear           |



## GaAlAs operating characteristics - color red

maximum ratings

|                              |              |                |
|------------------------------|--------------|----------------|
| forward current max.         | $I_{F \max}$ | 30 mA          |
| pulse current max. (1/10 tp) | $I_{P \max}$ | 120 mA         |
| reverse voltage              | $V_R \max$   | 5.0 V          |
| reverse current              | $I_R \max$   | 10 $\mu$ A     |
| operating temperature        | $t_{opr}$    | -40 .. +85 °C  |
| storage temperature          | $t_{stor}$   | -40 .. +100 °C |
| power dissipation            | $P_d \max$   | 100 mW         |
| forward voltage max.         | $V_F \max$   | 2.8 V          |



## dip and wave soldering instructions

- temperature of the soldering bath 260° celsius
- maximum soldering time 5 second
- distance from solder joint to case is 2.0 mm

## note

- all dimension are in millimeter
- tolerance is  $\pm 0.25$  mm unless otherwise noted
- specifications are subject to change without notice
- version 1.0 ESR30030

