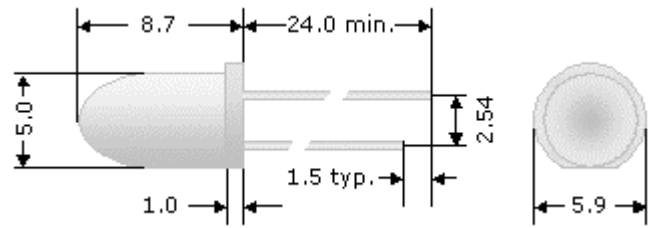


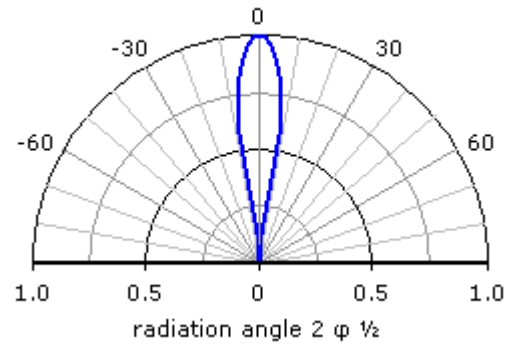


## Product SUR 50010

discrete diodes 5 mm  
color red

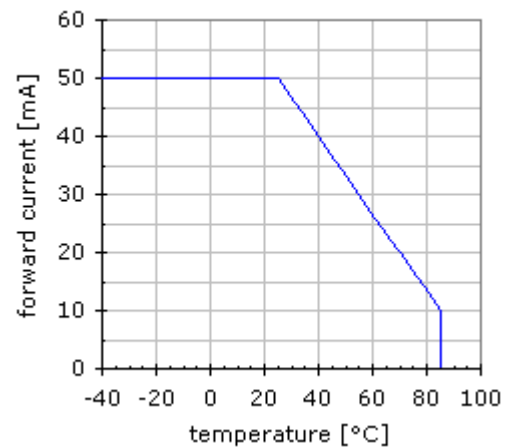


product-catalog	discrete diodes 5 mm
color	red
part no	SUR 50010
peak wavelength $\lambda_p$ [nm]	641
Iv [mcd] @ 20 mA min	4400
Iv [mcd] @ 20 mA typ	7400
radiation angle $2\phi_{1/2}$	15
chip construction	InGaAlP
forward voltage typ. [V]	1.9
case color	waterclear



### InGaAlP operating characteristics - color red maximum ratings

forward current max.	$I_{F \max}$	50 mA
pulse current max. (1/10 tp)	$I_{P \max}$	120 mA
reverse voltage	$V_{R \max}$	4.0 V
reverse current	$I_{R \max}$	50 $\mu$ A
operating temperature	$t_{opr}$	-40 .. +85 °C
storage temperature	$t_{stor}$	-40 .. +120 °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 SUR50010

