

Infra Red Is High Power . . .

Designed for high current drive the SH21IR850 high power surface mount Infra Red emitter is based on the proven Super Vega outline measuring 7.0 x 6.0mm with a low 1.5mm profile.

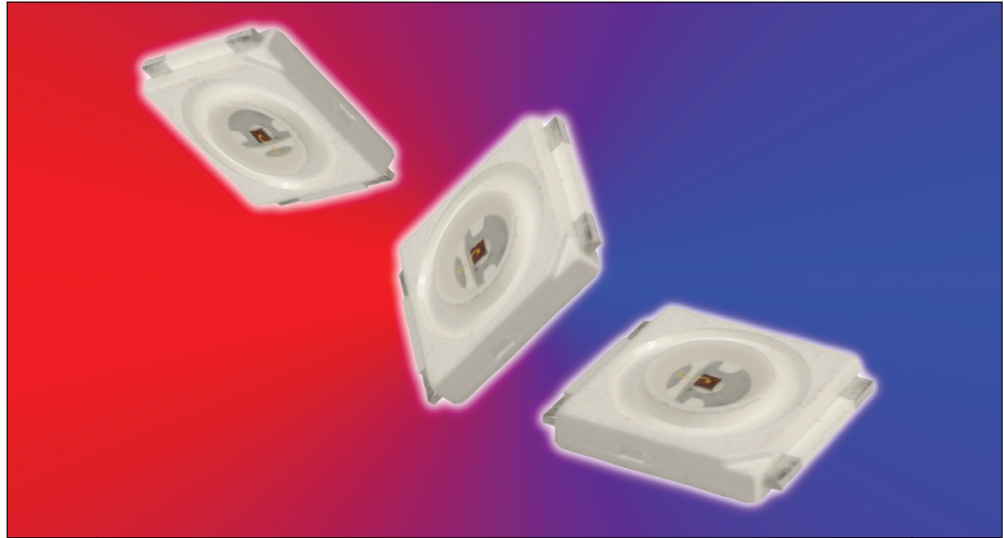
The device can be driven up to 500mA with a peak pulse current of 1A $t_p = < 10\mu s$ (duty cycle 0.1mS) and the low thermal resistance $R_{th}(j_s) = 20K/W$, allows efficient heat transfer to the PCB to maintain long term reliability. Optical output at the peak wavelength of 850nm is quoted at 45mW/sr @500mA with a forward voltage V_f typ = 2.0v.

The construction provides an emission angle of 120° which can be focused if required by the use of secondary optics for specific beam angle directivity.

The device has a wide operating temperature of -40° to +100°C and is suitable for IR reflow soldering to JEDEC J-STD 020C. The package is qualified to the JEDEC moisture sensitivity level 2.

The device can be used in a wide range of applications which include Machine vision, CCD cameras, Security and Automotive night vision.

Samples are available from Plus Opto Ltd.



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