



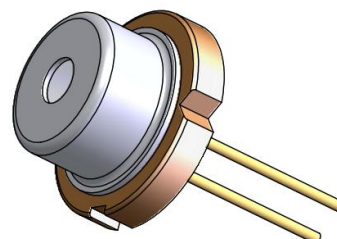
940nm 5W laser diode (P/N.: FP-5-940-FAC-01)

Features

- High output power 5W
- TE polarised beam
- 90µm emission width followed by a fast axis collimator (FAC)

Applications

- Laser pumping



Absolute maximum ratings

(measured at 25°C)

Parameter	Min	Typ	Max	Unit
Operating Temperature (non-condensing environment)	-20	-	80	°C
Storage Temperature (non-condensing environment)	-40	-	85	°C
Soldering temperature COC	-	-	260 / 6s	°C

Optical parameters

Parameter	Min	Typ	Max	Unit	Test Condition
Central Wavelength	933	938	943	nm	CW, T = 25 °C
Laser length	-	2.0	-	nm	
Chip thickness	95	105	115	um	
Emitter Size	-	90	-	um	
Fast Axis Divergence (FWHM)	-	-	10	°	
Slow Axis Divergence (FWHM)	-	8	10	°	
Output Power	5	-	-	W	CW, T = 25 °C
Threshold Current	-	0.5	0.6	A	T = 25 °C
Operating Current	-	5	6	A	CW
Operating Voltage	-	1.8	2	V	CW
Slope Efficiency	-	1	-	A/W	
Wall Plug Efficiency	50	55	-	%	

Dimensional outline (units = mm)

