

# Model FOD3506T

## Dual Laser Diode Module 850/1310 nm for OTDR



### DESCRIPTION

Fabry-Perot lasers provide good stability in both OTDR and Light Source modes. Internal monitor photodiode is necessary for Automatic Power Control. Low threshold and operating current guarantee low self heating and excellent reliability. Improved high pulse output power at 850 nm wavelength.

RoHS Compliant



ABSOLUTE MAXIMUM RATINGS			
Parameter	Symbol	Rated	Unit
Maximum CW Output Power	Pmax	2	mW
Laser Diode Reverse Voltage	Vrld	2	V
Operating Temperature	Top	-10 to +50	°C
Storage Temperature	Tst	-20 to +70	°C
Photodiode Reverse Voltage	Vrpd	20	V

### TECHNICAL SPECIFICATIONS at 23°C

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
<b>Central Wavelength</b>	$\lambda_c$	<b>Pcw=1mW</b>	<b>830</b>	<b>850</b>	<b>870</b>	<b>nm</b>
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	7	10	nm
CW Output Power	Pcw	50/125 $\mu$	1.5	-	-	mW
Pulse Output Power	Pp*	10% top slope	70	-	-	mW
Threshold Current	Ith	10 $\mu$ W	-	14	55	mA
Operation Current	Iop	Pp=70mW	-	140	250	mA
Operation Voltage	Vop	Pp=70mW	-	3	4.5	V
Monitor Current	Im	Pcw=1mW	0.1	0.5	-	mA
<b>Central Wavelength</b>	$\lambda_c$	<b>Pcw=1mW</b>	<b>1290</b>	<b>1310</b>	<b>1330</b>	<b>nm</b>
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	1	2	nm
CW Output Power	Pcw	50/125 $\mu$	1.5	-	-	mW
Pulse Output Power	Pp*	10% top slope	35	-	-	mW
Threshold Current	Ith	10 $\mu$ W	3	7	20	mA
Operation Current	Iop	Pp=35mW	-	150	250	mA
Operation Voltage	Vop	Pp=35mW	-	2.4	3.5	V
Monitor Current	Im	Pcw=1mW	0.1	0.5	1	mA

\*duty rate  $\leq 1\%$ , pulse drop  $< 10\%$

