

## 850nm Coaxial LASER DIODE



### Features

VSCEL  
 Low threshold current  
 High stability  
 High bandwidth  
 Coaxial package with MM fiber

### Applications

Fiber optic communication  
 Fiber optic sensor  
 Fiber optic instruments

### Specifications

Parameter	Smpol	Tested Condition	Min.	Typ.	Max.	Unit
<b>Output Power</b>	Pout	Iop=12mA	0.3	-	1.0	mW
<b>Central Wavelength</b>	$\lambda$	CW	840	850	860	nm
<b>Spectral Width</b>	$\Delta \lambda$	CW	-	-	0.85	nm
<b>Threshold Current</b>	Ith	CW	-	3	6	mA
<b>Operating Current</b>	Iop	CW	-	12	-	mA
<b>LD Forward Voltage</b>	Vf	Iop=12mA	1.9	2.0	2.1	V
<b>Rise /Fall Time</b>	Tr/Tf	CW	-	-	150	ps
<b>Detector Current</b>	Im	Iop=12mA	30	-	-	uA

**Absolute Maximum Ratings**

Parameter	Sym.	Value	Unit
LD forward current	$I_{f(LD)}$	30	mA
LD reverse current	$V_{R(LD)}$	10	V
Working temperature	$T_{OP}$	-20~+65	°C
Storage temperature	$T_{ST}$	-40~+85	°C
Down-lead jointing temperature/time	---	240/10	°C/S

**Pin definition:**

1 . Ground	2 . Detector P (+)
3 . LD N (-)	4 . Detector N (-) & LD P(+)

