

YSTA841V-I-LC
LC 10G 850nm TOSA
Features:

- ◆ 10Gb/s 850nm VCSEL laser
- ◆ Low threshold
- ◆ High reliability
- ◆ LC multimode plug Package

Application:

- Optical communication system
- Instruments and Apparatuses

General Requirement	Plastic package, inclined window cap
	Compliant with RoHS

Specification:

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Fiber Test Optical Power	Pout	Iop=6mA,50um fiber	0.3	-	0.8	mW
Emission wavelength	λ	Iop=6mA,T=25°C	840	850	860	nm
Spectral bandwidth	$\Delta \lambda$	Iop=6mA,T=25°C	-	-	0.65	nm
Threshold current	Ith	T=25°C	0.4	0.8	1.2	mA
		T=0~70°C	0.3	-	1.5	mA
Supply Current	Iop	T=25°C	3	6	10	mA
Rise and fall time	Tr/Tf	CW	-	-	0.06	ns
Monitor Current(PD)	Im	Iop=6mA	50	-	-	uA
Slope Efficiency	η	T=0~70°C	0.05	-	0.15	W/A
Differential resistance	R	Iop=6mA,T=25°C	85	100	115	Ω
Dark Current(PD)	Id	-3V,P=0mW	-	-	100	nA

Absolute Maximum Ratings:

Parameter	Symbol	Rating	Unit
Peak Forward Current	$I_{F(LD)}$	10	mA
Reverse Voltage	$V_{R(LD)}$	5	V
Photodiode Forward Current	$I_{F(PD)}$	2	mA
PD Reverse Voltage	$V_{R(PD)}$	20	V
Operating Temperature	T_{OP}	0 ~ +70	°C
Storage Temperature	T_{ST}	-40 ~ +85	°C
Lead solder temperature	-	260/10	°C/S
ESD (HBM)		0 级, <250	V

Dimensions:

