



1.25/2.5Gbps 850nm VCSEL TO-46 Can Package, 0 to 85°C

Part No. VCT-F85A30-3

Features

- Multi-mode 850nm VCSEL
- 1.25/2.5Gbps data rate operation
- Low drive current and voltage
- Flat window type TO-46 can package

Applications

- High speed Data communications
- Gigabit ethernet
- Fiber channel



Specifications

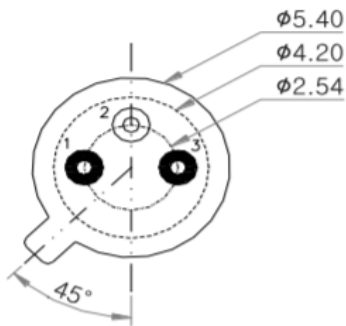
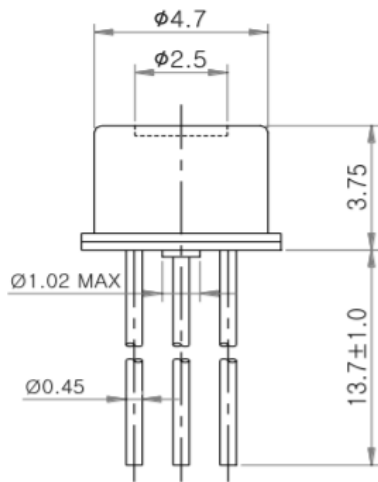
Absolute Maximum Ratings				
Parameters	Min.	Max.	Unit	Conditions
Storage Temperature	-40	100	°C	
Operating Temperature	0	85	°C	
Lead Solder Temperature		260	°C	10 seconds
Continuous Forward Current		12	mA	
Continuous Reverse Voltage		5	V	10uA

Electro-Optical Characteristics (T _a =25°C unless otherwise stated)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Threshold Current	I _{th}		1.5	3	mA	CW
Slope Efficiency	η	0.3	0.4	0.6	W/A	I _f =6mA
Optical Output Power	P _o		2		mW	I _f =6mA
Peak Wavelength	λ	840	850	860	nm	I _f =6mA
Spectral Bandwidth (RMS)	Δλ			0.85	nm	I _f =6mA
Beam Divergence	Θ	14		30	°	P ₀ =2.0mW, (Full width, 1/e ²)
Operating Voltage	V _f		1.7	2.2	V	I _f =6mA
Breakdown Voltage	V _b		-10		V	
Dynamic Resistance	R _d	20	35	55	Ohm	I _f =6mA

Thermal Characteristics						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
I _{th} Temperature Variation	ΔI _{th}		1.5		mA	T _a =0 to 85°C
η Temperature Coefficient	Δη/ΔT		-0.5		%/°C	T _a =0 to 85°C, I _f =6mA
λ Temperature Coefficient	Δλ/ΔT		0.06		nm/°C	T _a =0 to 85°C, I _f =6mA



Outline Dimensions (unit: mm)



Bottom View

Pin Configuration

Number	Function
1	LD Anode
2	NC
3	LD Cathode

Additional Notes

- The inherent design of this component causes it to be sensitive to electrostatic discharge (ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product.
- Specifications are subject to change without notice.