

Data Sheet F-SMA DIP Receptacle 660nm Transmitter

LED 660nm

1 General

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This device is designed for applications with 1mm plastic optical fiber (POF). The high performance of the LED makes this transmitter a good choice in data transmission systems with plastic fibers.

2 Application _____

Due to the good optical and mechanical features this transmitter may be used in many applications:

- Optical networks
- Industrial electronic
- Power electronic
- Light barrier

3 Ordering information

Туре	Part number
660nm Transmitter	905SE660SM006
660nm Transmitter (with fixing pins)	905SE660SM007

5 Technical drawing _____

Housing







PCB drill drawing



Schematic diagramm



Fixing pins (option) = 1.4mm

Top view

Pin 1..8

Pin-No.

2

3

1, 4, 5,

6, 7, 8

Drill diameter:

Function

= 0.8mm



Pic. 1 DIP receptacle

4 Features

- 660nm LED
- F-SMA metal port
- qualified for POF and PCF-fiber
- plastic housing
- optional with fixing pins
- pick and place support
- wave soldering compatible



6 Maximum Ratings ($T_c = 25^{\circ}C$)

Stresses beyond those listed under 'Maximum Ratings' may cause permanent damage to the device. Listed values are stress limits only and functional operation of the device at these conditions is not recommended. Exposure to maximum rating conditions for extended periods may affect the device reliability.

Parameter	Value	Unit
Operating temperature	-20 +80	°C
Storage temperature	-30 +100	°C
Junction temperature	100	°C
Lead soldering temperature 3mm from case, t ≤ 5s	260	°C
Reverse voltage	5	V
Forward current	50	mA
Forward pulse current t _w ≤ 10µs, T=ms	500	mA
Power dissipation	120	mW

7 Technical Data

Parameter	Symbol	Condition	Min	Тур	Мах	Unit
Forward voltage	V _F	I _F = 20mA		1.8	2.2	V
Power output	Po	I _F = 20mA		5		mW
Reverse current	I _R	V _R = 5V			100	μA
Peak wavelength	λ_{P}	I _F = 20mA		660		nm
Spectral line half width	Δ_{λ}	I _F = 20mA		25		
Half intensity beam angle	$\theta_{_{1/2}}$	I _F = 20mA		± 55		deg.
Switching times	t,	I _{FP} = 20mA		30		ns
	t _r			30		
Junction capacitance	C」	1MHz, V=0V		20		pF
Temperature coefficient	T _{POPT}	L = 10 m		-0.5		%/°C
	T _{VF}	i _F – TomA		-1.5		mV/°C

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