

Rev. A02

11/19 E05SE660SM106

Data Sheet

Metal Receptacle 660 nm Transmitter

LED 660 nm

1. General Description _____

The Transmitter is especially appropriate for plastic fiber optic applications up to 1 mm fiber diameter. The high performance of the 660 nm 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 Electronics
- Power Electronics
- Light Barriers

3. Ordering Information _____

Model: F-SMA F-SMA with accessories F-ST F-ST with accessories **Order Number:** 905SE660SM106 905SE660SM1Z6 905SE660ST106 905SE660ST1Z6



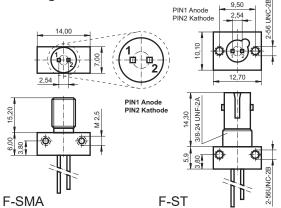
Pic 1 F-ST, F-SMA Metall Receptacle

4. Features _____

- 660 nm LED
- F-SMA metal port
- F-ST metal port
- · Qualified for plastic and PCF fiber
- Metal housing
- Wave soldering compatible

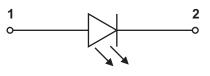
5. Drawings _____

Housing:



Pic 2 Drawings F-ST, F-SMA Metall Receptacle

Circuit:



Accessories: Attachment nut, lock washer, screws for PCB-mounting



LED 660 nm

6 Maximum Ratings (T_c = 25°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	Max	Unit
Forward voltage	V _F	I _F = 20mA		1.8	2.2	V
Power output	Po	I _F = 20mA		5		mW
Reverse current	۱ _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 _r	I _{FP} = 20mA		30		ns
	t _r			30		
Junction capacitance	C	1MHz, V=0V		20		pF
Temperature coefficient	T _{POPT}	I _F = 10mA		-0.5		%/°C
	T _{VF}			-1.5		mV/°C

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