

## GP1FD210TP/GP1FD310TP

## Fiber Optic Transmitter

### Low voltage Operation Optical Mini-jack for Digital Audio

#### ■ Features

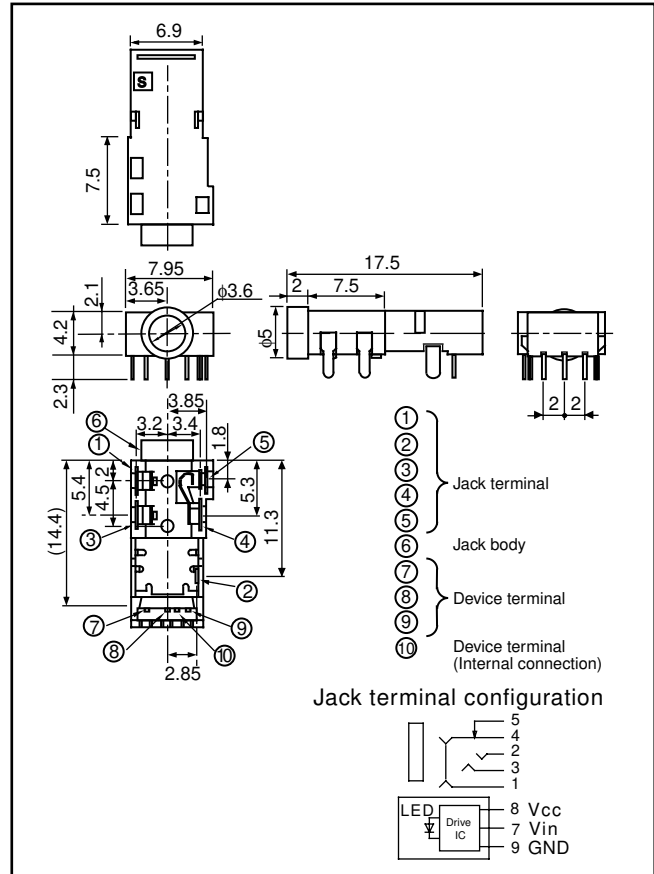
- (1) Compact (adoption of compact jack for mini plug) JIS C 6560
- (2) Optical digital signal and electric analog signal can be discriminated and transmitted.
- (3) High speed data transmission  
Signal transmission speed: MAX. 8Mbps (NRZ signal)
- (4) Low voltage operation  
**GP1FD210TP** :  $V_{cc}=2.3$  to  $2.8V$   
**GP1FD310TP** :  $V_{cc}=2.7$  to  $3.6 V$

#### ■ Applications

- (1) MD players
- (2) Portable CD players

#### ■ Outline Dimensions

(Unit: mm)



#### ■ Specifications

( $T_a=25^{\circ}C$ )

Parameter	Symbol	Ratings	
		GP1FD210TP	GP1FD310TP
Operating voltage	$V_{cc}$	2.3 to 2.8 V	2.7 to 3.6 V
Dissipation current	$I_{cc}$	MAX. 10 mA	MAX. 12 mA
Peak emission wavelength	$\lambda_p$	TYP. 660 nm	
Fiber coupling light output	$P_c$	MIN. -21 dBm	
Operation transfer rate	$T$	MAX. 8 Mbps	
Jitter	$\Delta t_j$	TYP. 1 ns	
Operating temperature	$T_{opr}$	-20 to +70 °C	

As of September, 2001

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(Internet)

•Data for Sharp's optoelectronic/power devices is provided on internet. (Address <http://sharp-world.com/ecg/>)

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