

Photoreceiver 660nm 5MBit/s

5 Maximum ratings _____

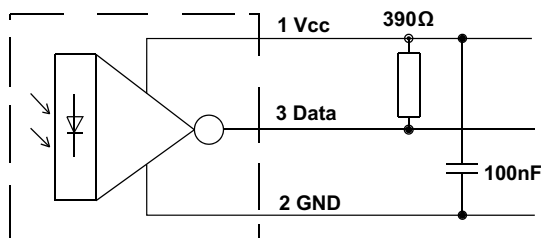
Stresses beyond those listed under «Maximum Ratings» may cause permanent damage to the electronic component. The maximum ratings represent the stress limits of the electronic component. Operation of the electronic component at these values is not recommended over an extended period as this may adversely affect the reliability of the component.

Parameter	Symbol	Value	Unit
Operating voltage	V_{CC} max.	-0.5 to 15	V
Output voltage	V_{oh} max.	-0.5 to 15	V
Min. supply voltage for function	V_{CC} min.	4	V
Output current	I_o	50	mA
Minimum pullup resistance ($V_{CC} = 5V$)	R_{OUT} min.	330	Ω
Soldering temperature $t \leq 5s$	T_{Sol}	260	$^{\circ}C$
Operating temperature	T_{Opr}	-40 to +85	$^{\circ}C$
Storage temperature	T_{Stg}	-40 to +100	$^{\circ}C$

6 Technical data _____

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Operating voltage	V_{CC}		4.75	-	5.25	V
Data rate	f_D		DC	-	5	MBit/s
Current consumption	I_{CC}	no output current	-	-	4	mA
Min. input power	P_{in} min.	$\lambda = 660nm$	-	-	12	μW
Max. photosensitivity wavelength	λ_{Smax}		-	700	-	nm
Photosensitivity spectral range	$\Delta\lambda$	$S = 80\% S_{max}$	600	-	780	nm
Propagation delay	t_{PHL}		-	120	-	ns
	t_{PLH}		-	270	-	ns

8 Application note _____



Note:
 Avoid unwanted signals on the voltage supply.
 Place an 100nF decoupling capacitor as close as possible to the receiver.
 Keep PCB traces as short as possible.
 Protect the receiver against dirt.

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