

Optoisolators (cont'd)

TTL Compatible Phototransistors		Device Ratings		LED Max Ratings		Output Ratings				Ckt. Diag.	Fig. No.	
ECG Type	Output Configuration	Isolation Voltage V_{iso} (V)	Power P_t (mW)	Forward Current I_F (mA)	Reverse Voltage V_R (V)	Max V_{cc} (V)	Current Transfer Ratio % *	Output Current I_o (mA)	Propagation Delay Time (nsec)			Data Transfer Rate Mbit/sec
ECG3092	Open Collector NPN Transistor	3000	100	25	5	15	15	8	800	1	O	P29
ECG3093	NPN Split Darlington	3000	100	20	5	18	400	60	t_{PHL} 1 μ sec t_{PLH} 7 μ sec	100K	P	
ECG3095	Dual Open Collector, NPN Transistors	3000	100	25	5	15	15	8	800	1	R	

* DC Current Transfer Ratio is the output transistor collector current divided by the LED forward current - $h_{FE} = I_c / I_F$

ECG Type	Output Configuration	Total Device Ratings		Led Max Ratings		Output Ratings					Ckt. Diag.	Fig. No.
		Isolation Voltage V_{iso} Surge (V)	Power P_t (mW)	Forward Current I_F (mA)	Reverse Voltage V_R (V)	V_{cc} Voltage Range (V)	Output Voltage V_o (V)	Output Current I_o (mA)	Turn-On Time T_{on} (μ sec)	Turn-Off Time T_{off} (μ sec)		
ECG3090	Schmitt Trigger	7500	150	60	6	3V to 15V	15 max	50 max	1.2 typ	1.2 typ	N	P28

Optoisolator Circuits

<p>Diag. A Fig. P28</p> <p>ECG 3040 3041 3042 3043 3088 3096</p>	<p>Diag. B Fig. P28</p> <p>ECG 3044 3045</p>	<p>Diag. C Fig. P27</p> <p>ECG3082</p>
<p>Diag. D Fig. P27</p> <p>ECG3081</p>	<p>Diag. E Fig. P28</p> <p>ECG 3083 3084</p>	<p>Diag. F Fig. P29</p> <p>ECG3086</p>
<p>Diag. G Fig. P28</p> <p>ECG 3046 3091</p>	<p>Diag. H Fig. P28</p> <p>ECG 3047 3048</p>	<p>Diag. J Fig. P28</p> <p>ECG 3049 3097</p>
<p>Diag. K Fig. P28</p> <p>ECG3085</p>	<p>Diag. L Fig. P29</p> <p>ECG3087</p>	<p>Diag. M Fig. P28</p> <p>ECG3089</p>