

Coupler Types:

- Photo Transistor Coupler
- Photo TRIAC
- Photo Relays
- Photo Voltaic Coupler
- Photo Coupler IC for **High Speed Data Transmission**
- Photo Coupler IC as **MOSFET Driver**

Low-profile, enhanced isolation SO6



Creepage distance $\geq 7\text{mm}$ SDIP6



Compact-size, SMD, 2-ch, SO8



AC-input, high-speed logic output



New

High-temperature operation

$T_{opr}=125^{\circ}\text{C}$

New

Coupler Features:





- High Switching Speed** up to 50Mb/s enables large amount of data transmission
- Low to High **Output Current MOSFET/IGBT Drivers** for safe and easy power control
- Easy transistor drive using Photo Voltaic Coupler** – no voltage supply required!
- Extended Industrial Temperature Range up to 125°C** to improve reliability, lifetime and to broaden application diversity
- Guaranteed propagation delay times and **switching time despersion** for IPM and control IC in motor control application
- Wide package variation** resolves space limitation and establishes isolation plus creepage/clearance requirements
- 1-ch, 2-ch and 4-ch coupler types available
- AC and DC input types available
- EN60747, VDE, BSI, Semko and UL certification available
- Large Production Capacity** helps avoiding supply chain interruption and provides benefits from scale of economy effect

Photo Transistor Coupler

Features		Package								
		SO4	SOP16	SO6	SO16	MFSOP6	DIP4	DIP8	DIP16	
Channel		Single	Quad	Single	Quad	Single	Single	Dual	Quad	
Isolation Voltage		Single	Quad	Single	Quad	Single	Single	Dual	Quad	
General-purpose	2500 Vrms		TLP281-4		TLP291-4*			TLP504A		
	3750 Vrms	TLP291*		TLP185*		TLP131				
	5000 Vrms						TLP781 TLP785			
	Low If	3750 Vrms					TLP124 TLP137			
		5000 Vrms						TLP624	TLP624-2	TLP624-4
AC input	2500 Vrms		TLP280-4		TLP290-4*					
	3750 Vrms	TLP290*		TLP184*		TLP130				
	5000 Vrms						TLP620	TLP620-2	TLP620-4	
	Low If	3750 Vrms					TLP126			
		5000 Vrms						TLP626	TLP626-2	TLP626-4
Darlington High V _{CEO}	2500 Vrms					TLP127				
	5000 Vrms						TLP627	TLP627-2	TLP627-4	

*Under development. Specifications subject to change without notice. For the latest information, please contact your nearest Toshiba sales representative.

Logic Signal Photo Coupler





Features		Package					
							
Data Rate (Typ.)	Output	MFSOP6	SO6	SO8		SDIP6	
				1ch	2ch		
0.3 Mbit/s	Open-collector (Darlington)			TLP2403			
1 Mbit/s	Open-collector		TLP109	TLP2409		TLP719	
	IPM drive	(TLP114A(IGM))* ³	TLP109(IGM) TLP104	TLP2409(IGM) TLP2404		TLP714* ¹	
5 Mbit/s	Totem-pole	TLP105 TLP108	TLP2355 TLP2358	TLP2405 TLP2408		TLP2105 TLP2108	
	Dual polarity input	TLP2095 TLP2098					
15 to 20 Mbit/s	Totem-pole	5 V	(TLP116)* ⁵	TLP116A		TLP2116	
		3.3 V	TLP2066			TLP2166A	
		3.3 V/5 V		TLP2366* ¹	TLP2466* ¹	TLP2160* ¹	TLP2766* ¹
	Open-collector	5 V		TLP118	TLP2418	TLP2118	TLP708
		3.3 V/5 V		TLP2368* ¹	TLP2468* ¹	TLP2168* ¹	TLP2768* ¹
50 Mbit/s	Totem-pole	5 V	TLP117				
		3.3 V/5 V		TLP2367* ¹	TLP2467* ¹	TLP2167* ¹	TLP2767* ¹

*¹: Under development as of January 2011. For the latest information, please contact your nearest Toshiba sales representative.

*³: TLP109(IGM) recommended

*⁵: TLP116A recommended

IGBT/MOSFET Driver Photo Coupler

Output Peak Current	Package			
				
	SDIP6	DIP8	SO6	SO8
± 0.45 A (max)	TLP705 (High speed)			
± 0.6 A (max)	TLP701 TLP701A* TLP701H* TLP705A*	TLP351 TLP351A* TLP351E TLP351H*	TLP151* TLP151A* TLP155E	TLP2451 TLP2451A*
± 2.0 A (max)	TLP700 TLP700H*			
± 2.5 A (max)		TLP350 TLP350H* TLP352*		

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