TOSHIBA

Leading Innovation

IC Photocouplers and Tr Photocouplers

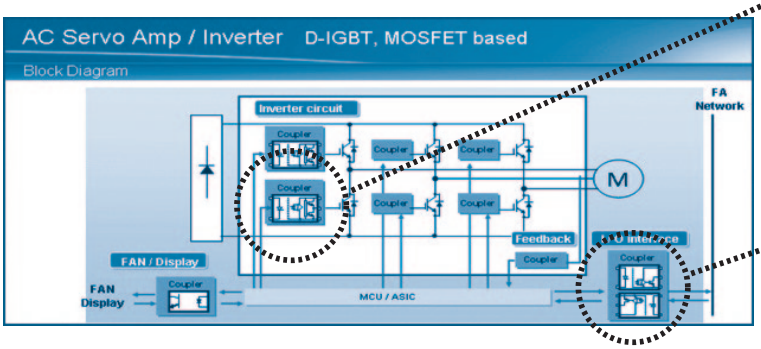
Selection Guide

2013 Jun.

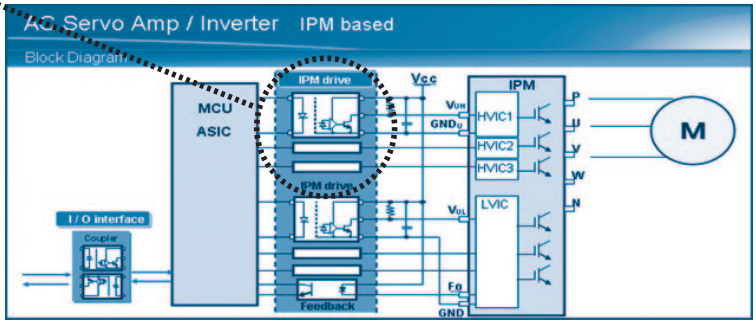
IC Photocouplers

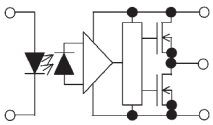
IGBT/MOSFET Driver Couplers

High speed Logic Couplers



IPM Driver Couplers

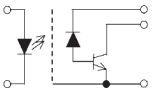
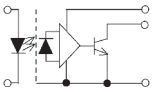
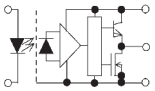
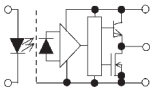




IGBT /MOSFET Driver Couplers

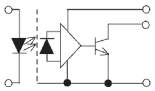
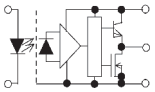
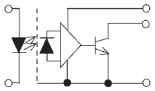
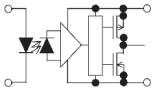
Part Number	I_{OP}(A) (Max.) $I_{OP\ (H/L)}$	Supply Voltage Operating Range V_{CC} (V)	High/Low -level Supply Current I_{CC} (Max.) (mA)	Operating Temperature T_{opr} (°C)	Propagation Deley Time (Max.) T_P (LH/HL) (μs)	Threshhold LED Input Current I_{FLH} (Max.) (mA)	Isolation Voltage BVs (Vrms)	PKG
TLP358	±6.0	15 to 30	2.0	-40 to 100	0.5	5.0	3750	DIP8
TLP358H		15 to 30	2.0	-40 to 125	0.5	5.0	3750	DIP8
TLP250H	±2.0	10 to 30	3.0	-40 to 125	0.5	5.0	5000	DIP8
TLP350H		15 to 30	3.0	-40 to 125	0.5	5.0	3750	DIP8
TLP700H		15 to 30	3.0	-40 to 125	0.5	5.0	5000	SDIP6
TLP352		15 to 30	3.0	-40 to 125	0.2	5.0	3750	DIP8
TLP700A		15 to 30	3.0	-40 to 110	0.2	5.0	5000	SDIP6
TLP152		10 to 30	3.0	-40 to 100	0.17/0.19	7.5	3750	SO6
TLP351A	±0.6	10 to 30	2.0	-40 to 100	0.5	5.0	3750	DIP8
TLP351H		10 to 30	2.0	-40 to 125	0.7	5.0	3750	DIP8
TLP701A		10 to 30	2.0	-40 to 100	0.5	5.0	5000	SDIP6
TLP701H		10 to 30	2.0	-40 to 125	0.7	5.0	5000	SDIP6
TLP2451A		10 to 30	2.0	-40 to 125	0.5	5.0	3750	SO8
TLP151A		10 to 30	2.0	-40 to 110	0.5	5.0	3750	SO6
TLP705A		10 to 30	3.0	-40 to 100	0.2	7.5	5000	SDIP6
TLP155E		10 to 30	3.0	-40 to 100	0.2	7.5	3750	SO6

IPM Driver Couplers

Part Number	Data Rate and Output Type	Supply Voltage V_{CC} (V) (**Note:1**)	High/Low -level Supply Current I_{CC} (Max.) (mA)	Operating Temperature T_{opr} (°C)	Propagation Deley Time (Max.) T_{PLH}/T_{pHL} (μs)	Threshhold LED Input Current I_{FHL}/I_{FLH} (Max.) (mA)	Isolation Voltage BVs (Vrms)	PKG
TLP759(IGM)	**1Mbps** Open-collector 	~30	1.0(μA) (I_{CCH})	-55 to 100	1.0	—	5000	DIP8
TLP109(IGM)		~30	1.0(μA) (I_{CCH})	-55 to 125	1.0	—	3750	SO6
TLP754	**1Mbps** Open-collector 	4.5 to 30	1.3	-40 to 125	0.4/0.55	5.0	5000	DIP8
TLP714		4.5 to 30	1.3	-40 to 125	0.4/0.55	5.0	5000	SDIP6
TLP2404		4.5 to 30	1.3	-40 to 125	0.4/0.55	5.0	3750	SO8
TLP104		4.5 to 30	1.3	-40 to 125	0.4/0.55	5.0	3750	SO6
TLP2955	**5Mbps** Totem-pole 	3 to 20	3.0	-40 to 125	0.25	1.6 (Buffer)	5000	DIP8
TLP715		4.5 to 20	3.0	-40 to 100	0.25	3.0 (Buffer)	5000	SDIP6
TLP2405		4.5 to 20	3.0	-40 to 100	0.25	1.6 (Buffer)	3750	SO8
TLP2355		3 to 20	3.0	-40 to 125	0.25	1.6 (Buffer)	3750	SO6
TLP2958	**5Mbps** Totem-pole 	3 to 20	3.0	-40 to 125	0.25	1.6 (Inverter)	5000	DIP8
TLP718		4.5 to 20	3.0	-40 to 100	0.25	1.6 (Inverter)	5000	SDIP6
TLP2408		4.5 to 20	3.0	-40 to 100	0.25	1.6 (Inverter)	3750	SO8
TLP2358		3 to 20	3.0	-40 to 125	0.25	1.6 (Inverter)	3750	SO6

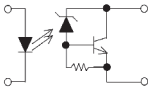
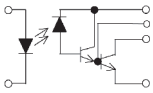
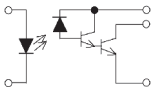
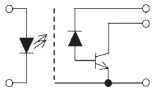
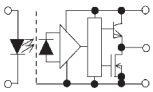
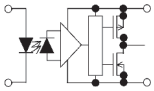
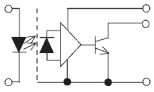
Note1: Recommended Operating Condition

High speed Logic Couplers (5V Operating)

Part Number	Data Rate and Output Type	Supply Voltage V_{CC} (V) (**Note:1**)	High/Low -level Supply Current I_{CC} (Max.) (mA)	Operating Temperature T_{opr} (°C)	Propagation Deley Time (Max.) T_{PLH}/T_{pHL} (μs)	Threshhold LED Input Current I_{FHL}/I_{FLH} (Max.) (mA)	Isolation Voltage BVs (Vrms)	PKG
TLP754	**1Mbps** Open-collector 	4.5 to 30	1.3	-40 to 125	0.40/0.55	5.0	5000	DIP8
TLP714		4.5 to 30	1.3	-40 to 125	0.40/0.55	5.0	5000	SDIP6
TLP2404		4.5 to 30	1.3	-40 to 125	0.40/0.55	5.0	3750	SO8
TLP104		4.5 to 30	1.3	-40 to 125	0.40/0.55	5.0	3750	SO6
TLP715	**5Mbps** Totem-pole 	4.5 to 20	3.0	-40 to 100	0.25	3.0 (Buffer)	5000	SDIP6
TLP718		4.5 to 20	3.0	-40 to 100	0.25	3.0 (Inverter)	5000	SDIP6
TLP2405		4.5 to 20	3.0	-40 to 100	0.25	1.6 (Buffer)	3750	SO8
TLP2408		4.5 to 20	3.0	-40 to 100	0.25	1.6 (Inverter)	3750	SO8
TLP2105 (**Note:2**)		4.5 to 20	6.0	-40 to 100	0.25	1.6 (Buffer)	2500	SO8
TLP2108 (**Note:2**)		4.5 to 20	6.0	-40 to 100	0.25	1.6 (Inverter)	2500	SO8
TLP105		4.5 to 20	3.0	-40 to 100	0.25	1.6 (Buffer)	3750	MFSOP6
TLP108		4.5 to 20	3.0	-40 to 100	0.25	1.6 (Inverter)	3750	MFSOP6
TLP716	**10～20Mbps** Totem-pole	4.5 to 5.5	5.0	-40 to 100	0.075	6.5	5000	SDIP6
TLP2116 (**Note:2**)		4.5 to 5.5	10	-40 to 100	0.075	5.0	2500	SO8
TLP116A		4.5 to 5.5	5.0	-40 to 100	0.06	5.0	3750	SO6
TLPN137	**10～20Mbps** Open-Collector 	4.5 to 5.5	4.0	-40 to 85	0.075	5.0	5000	DIP8
TLP708		4.5 to 5.5	5.0	-40 to 125	0.075	5.0	5000	SDIP6
TLP2418		4.5 to 5.5	5.0	-40 to 125	0.075	5.0	3750	SO8
TLP2118E (**Note:2**)		4.5 to 5.5	10	-40 to 100	0.075	5.0	2500	SO8
TLP118		4.5 to 5.5	5.0	-40 to 125	0.06	5.0	3750	SO6
TLP117	**50Mbps** Totem-pole 	4.5 to 5.5	5.0	-40 to 105	0.02	5.0	3750	MFSOP6

Note1: Recommended Operating Condition
Note2: Dual channel type

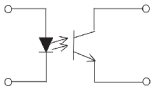
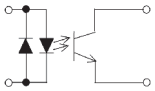
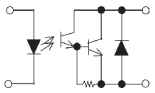
High speed Logic Couplers (3.3/5V Operating)

Part Number	Data Rate and Output Type	Supply Voltage V_{CC} (V) (**Note:1**)	High/Low -level Supply Current I_{CC} (Max.) (mA)	Operating Temperature T_{opr} (°C)	Propagation Deley Time (Max.) T_{PLH}/T_{PHL} (μs)	Threshhold LED Input Current I_{FHL}/I_{FLH} (Max.) (mA)	Isolation Voltage BVs (Vrms)	PKG
TLP2301	**20Kbps** Open-collector 	(**Note:2**)	—	-55 to 125	30	GB Rank Current Transfer Ratio:100%(Min.) @I_F=1mA,Vce=5V	3750	SO6
TLP553	**100Kbps** Open-collector 	~16	0.3 (I_{CCL} Typ.)	-40 to 85 (**Note:3**)	25/60	Current Transfer Ratio:400%(Min.) @I_F=0.5mA, Vce=4.5V	2500	DIP8
TLP2403		~16	0.01/1.5	-40 to 100	25/60		3750	SO8
TLP2303		4.5~18	0.01/1.5	-40 to 125	15/50	Current Transfer Ratio:900%(Min.) @I_F=0.5mA, Vce=4.5V	3750	SO6
TLP759	**1Mbps** Open-collector 	~30	1.0(μA) (I_{CCH})	-55 to 100	0.8	Current Transfer Ratio:20%(Min.) @I_F=16mA, Vce=4.5V	5000	DIP8
TLP2409		~30	1.0(μA) (I_{CCH})	-55 to 125	0.8		3750	SO8
TLP109		~30	1.0(μA) (I_{CCH})	-55 to 125	0.8		3750	SO6
TLP2309		2.7~20	1.0(μA) (I_{CCH})	-40 to 110	1.0	Current Transfer Ratio:15%(Min.) @I_F=10mA, Vce=3.3V	3750	SO6
TLP2955	**5Mbps** Totem-pole 	3.0~20	3.0	-40 to 125	0.25	1.6 (Buffer)	5000	DIP8
TLP2958		3.0~20	3.0	-40 to 125	0.25	1.6 (Inverter)	5000	DIP8
TLP2355		3.0~20	3.0	-40 to 125	0.25	1.6 (Buffer)	3750	SO6
TLP2358		3.0~20	3.0	-40 to 125	0.25	1.6 (Inverter)	3750	SO6
TLP2766	**10~20Mbps** Totem-pole 	2.7 to 5.5	3.0	-40 to 125	0.04	3.5	5000	SDIP6
TLP2466		2.7 to 5.5	3.0	-40 to 125	0.04	3.5	3750	SO8
TLP2160 (**Note:4**)		2.7 to 5.5	5.0	-40 to 125	0.04	3.5	2500	SO8
TLP2366		2.7 to 5.5	3.0	-40 to 125	0.04	3.5	3750	SO6
TLP2962	**10~20Mbps** Open-collector 	2.7 to 5.5	4.0	-40 to 125	0.075	5.0	5000	DIP8
TLP2662 (**Note:4**)		2.7 to 5.5	8.0	-40 to 125	0.075	5.0	5000	DIP8
TLP2768		2.7 to 5.5	4.0	-40 to 125	0.06	5.0	5000	SDIP6
TLP2468		2.7 to 5.5	4.0	-40 to 125	0.06	5.0	3750	SO8
TLP2168 (**Note:4**)		2.7 to 5.5	8.0	-40 to 125	0.06	5.0	2500	SO8
TLP2368		2.7 to 5.5	4.0	-40 to 125	0.06	5.0	3750	SO6

Note1: Recommended Operating Condition
Note2: VCEO 40V
Note3: Recommended Operating Temperature is 0 to 70°C
Note4: Dual channel type

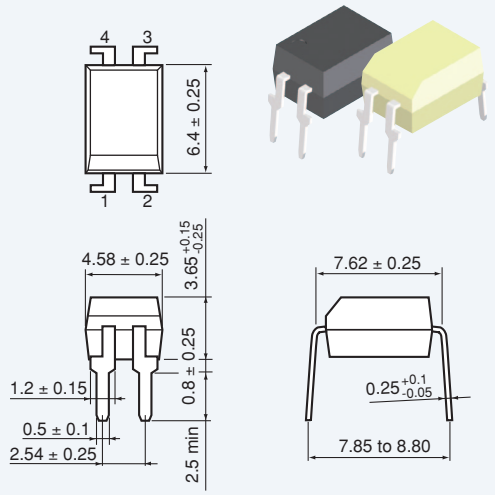
Transistor Couplers

Transistor Couplers

Part Number	Function	Current Transfer Ratio CTR(IC/IF) (%)		Collector -Emitter Voltage	Turn-on /Turn-off Time	Operating Temperature	Isolation Voltage	PKG
			@ I_F (mA) /V_{CE}(V) Ta=25°C	V_{CEO}(V)	ton/toff (Typical) (μs)	T_{opr} (°C)	BVs (Vrms)	
TLP291(SE)	**DC input** 	50~600	5/5	80	0.5/40	-55 to 110	3750	SO4
TLP291-4		50~400	5/5	80	2/60	-55 to 110	2500	SO16 (4 Channel)
TLP185(SE)		50~600	5/5	80	0.5/40	-55 to 110	3750	SO6
TLP785		50~600	5/5	80	1.5/50	-55 to 110	5000	DIP4
TLP293	Low input	50~600	0.5/5	80	0.5/35	-55 to 125	3750	SO4
TLP183		50~600	0.5/5	80	0.5/35	-55 to 125	3750	SO6
TLP188	High V_{CEO}	50~600	5/5	350	3/80	-55 to 110	3750	SO6
TLP290(SE)	**AC input** 	50~600	5/5	80	0.5/50	-55 to 110	3750	SO4
TLP290-4		50~400	5/5	80	2/60	-55 to 110	2500	SO16 (4 Channel)
TLP184(SE)		50~600	5/5	80	0.5/50	-55 to 110	3750	SO6
TLP292	Low input	50~600	0.5/5	80	0.5/35	-55 to 125	3750	SO4
TLP182		50~600	0.5/5	80	0.5/35	-55 to 125	3750	SO6
TLP187	**Darlington Transistor** High V_{CEO} 	1000(Min.) 4000(Typ.)	1/1	300	5/80	-55 to 110	3750	SO6

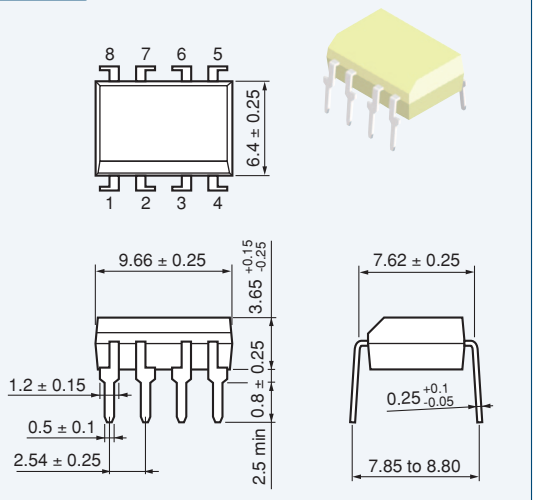
Dimensional Out Line

DIP4



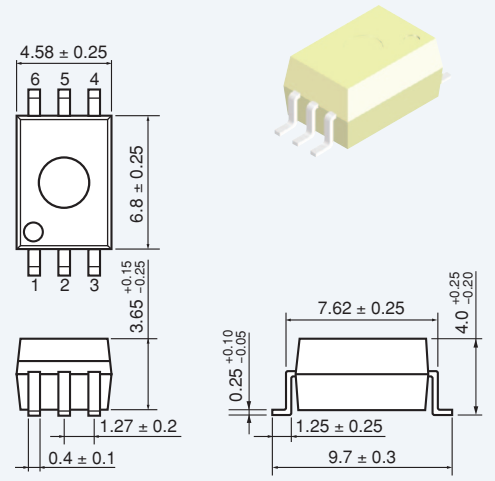
Unit: mm

DIP8



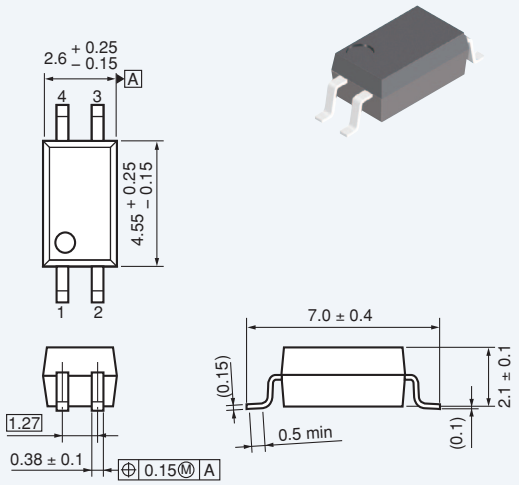
Unit: mm

SDIP6



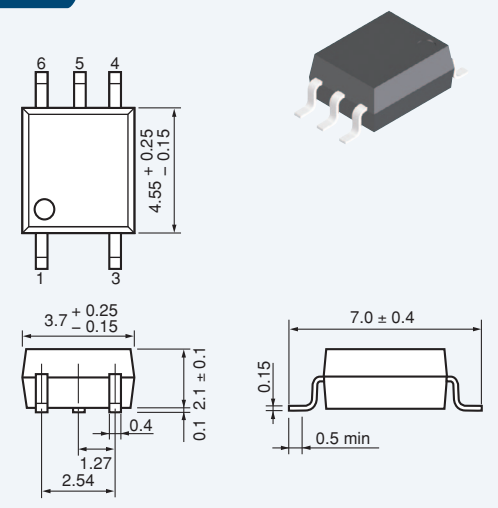
Unit: mm

SO4



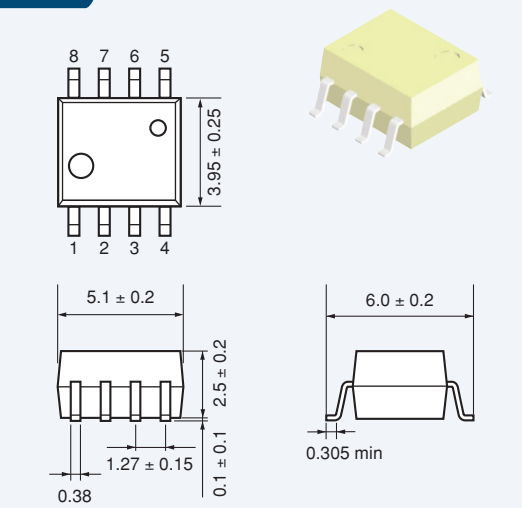
Unit: mm

SO6



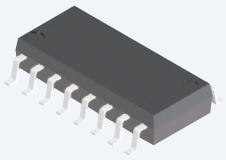
Unit: mm

SO8



Unit: mm

SO16



Unit: mm

4 Pin MFSOP6

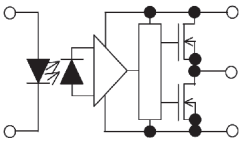
Unit: mm

Cross Reference

Cross Reference for Driver Coupler

Part Number	Toshiba Replacement	Replacement Level (**Note:1**)	Peak Current	PKG
ACNW3120	TLP352F	S	2.5 A	DIP8
ACNW3130	TLP352F	S	2.5 A	DIP8
ACNW3190	TLP358F	S	6.0 A	DIP8
ACPL-312U	TLP352	S	2.5 A	DIP8
ACPL-3130	TLP352	S	2.5 A	DIP8
ACPL-H312	TLP700A	S	2.5 A	SDIP6
ACPL-J313	TLP352	S	2.5 A	DIP8
ACPL-K312	TLP700AF	S	2.5 A	SDIP6
ACPL-P302	TLP701H	A	0.6 A	SDIP6
ACPL-P314	TLP701H	A	0.6 A	SDIP6
ACPL-T350	TLP352	S	2.5 A	DIP8
ACPL-W302	TLP701HF	A	0.6 A	SDIP6
ACPL-W314	TLP701HF	A	0.6 A	SDIP6
HCPL-0302	TLP2451A / TLP151A	A / S	0.6 A	SO8 / SO6
HCPL-0314	TLP2451A / TLP151A	A / S	0.6 A	SO8 / SO6
HCPL-3020	TLP351H	A	0.6 A	DIP8
HCPL-3100	TLP351H	A	0.6 A	DIP8
HCPL-3101	TLP351H	A	0.6 A	DIP8
HCPL-3120	TLP352	S	2.5 A	DIP8
HCPL-3140	TLP351H	A	0.6 A	DIP8
HCPL-314J	TLP701H x 2pcs	B	0.6 A	SDIP6
HCPL-3150	TLP351H	A	0.6 A	DIP8
HCPL-315J	TLP701H x 2pcs	B	0.6 A	SDIP6
HCPL-3180	TLP352	A	2.5 A	DIP8
HCPL-J312	TLP352	S	2.5 A	DIP8
HCPL-J314	TLP351H	A	0.6 A	DIP8
HCPL-T250	TLP352	S	2.5 A	DIP8
PS9301	TLP701H	A	0.6 A	SDIP6
PS9302	TLP700A	S	2.5 A	SDIP6
PS9306L	TLP701H	A	0.6 A	SDIP6
PS9308L	TLP700A	S	2.5 A	SDIP6
PS9505	TLP352	S	2.5 A	DIP8
PS9506	TLP351H	S	0.6 A	DIP8
PS9552	TLP350H	S	2.5 A	DIP8
PS9553	TLP351H	A	0.6 A	DIP8
PS9801	TLP2451A	S	0.6 A	SO8

Output



Note:1
S: Upper compatible (Advantage of space or package)
A: Direct compatible
B: Close equivalent

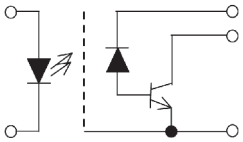
Cross Reference for High Speed and IPM Driver Coupler

Part Number	Toshiba Replacement	Replacement Level (**Note:1**)	Data Rate (typ)	Output (**Note:2**)	PKG
ACPL-071L	TLP2466	A	20 Mbps	3	SO8
ACPL-074L	TLP2160	A	20 Mbps	5	SO8
ACPL-M43U	TLP109 / TLP104	A / S	1 Mbps	1 / 2	SO6
ACPL-M46U	TLP104	A	1 Mbps	2	SO6
ACPL-M60L	TLP2368	A	20 Mbps	2	SO6
ACPL-M61L	TLP2368	S	20 Mbps	2	SO6
ACPL-M61U	TLP2362	A	10 Mbps	2	SO6
ACPL-M75L	TLP2366	A	20 Mbps	3	SO6
ACPL-P454	TLP719	A	1 Mbps	1	SDIP6
ACPL-P456	TLP714	A	1 Mbps	2	SDIP6
ACPL-P480	TLP715	A	5 Mbps	3	SDIP6
ACPL-P481	TLP718	A	5 Mbps	3	SDIP6
ACPL-P611	TLP2768	A	20 Mbps	2	SDIP6
ACPL-W454	TLP719F	A	1 Mbps	1	SDIP6
ACPL-W456	TLP714F	A	1 Mbps	2	SDIP6
ACPL-W480	TLP715F	A	5 Mbps	3	SDIP6
ACPL-W481	TLP718F	A	5 Mbps	3	SDIP6
ACPL-W60L	TLP2768F	A	20 Mbps	2	SDIP6
ACPL-W611	TLP2768F	A	20 Mbps	2	SDIP6
ACPL-W70L	TLP2766F	B	20 Mbps	3	SDIP6
HCPL-0201	TLP2405	A	5 Mbps	3	SO8
HCPL-0211	TLP2405	A	5 Mbps	3	SO8
HCPL-0452	TLP2409 / TLP2404	A / S	1 Mbps	1 / 2	SO8
HCPL-0453	TLP2409 / TLP2404	A / S	1 Mbps	1 / 2	SO8
HCPL-0454	TLP2409 / TLP2404	A / S	1 Mbps	1 / 2	SO8
HCPL-0466	TLP2404	A	1 Mbps	2	SO8
HCPL-0500	TLP2409 / TLP2404	B / S	1 Mbps	1 / 2	SO8
HCPL-0501	TLP2409 / TLP2404	B / S	1 Mbps	1 / 2	SO8
HCPL-0600	TLP2468	S	20 Mbps	2	SO8
HCPL-0601	TLP2468	S	20 Mbps	2	SO8
HCPL-060L	TLP2468	A	20 Mbps	2	SO8
HCPL-0611	TLP2468	S	20 Mbps	2	SO8
HCPL-061A	TLP2468	S	20 Mbps	2	SO8
HCPL-061N	TLP2468	S	20 Mbps	2	SO8
HCPL-0630	TLP2168	S	20 Mbps	4	SO8
HCPL-0631	TLP2168	S	20 Mbps	4	SO8
HCPL-063A	TLP2168	S	20 Mbps	4	SO8
HCPL-063L	TLP2168	A	20 Mbps	4	SO8
HCPL-063N	TLP2168	S	20 Mbps	4	SO8
HCPL-0661	TLP2168	S	20 Mbps	4	SO8
HCPL-0700	TLP2403	A	100 kbps	1	SO8
HCPL-0701	TLP2403	A	100 kbps	1	SO8
HCPL-0708	TLP2466	A	20 Mbps	3	SO8
HCPL-070A	TLP2403	A	100 kbps	1	SO8
HCPL-070L	TLP2403	A	100 kbps	1	SO8
HCPL-0738	TLP2160	A	20 Mbps	5	SO8
HCPL-2200	TLP2955	B	5 Mbps	3	DIP8
HCPL-2201	TLP2955	A	5 Mbps	3	DIP8
HCPL-2202	TLP2955	B	5 Mbps	3	DIP8
HCPL-2211	TLP2955	B	5 Mbps	3	DIP8
HCPL-2212	TLP2955	B	5 Mbps	3	DIP8

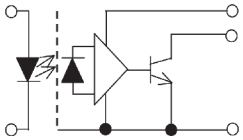
Note:1
S: Upper compatible (Advantage of space or package)
A: Direct compatible
B: Close equivalent

Note:2

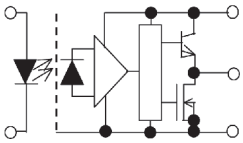
1: Open collector
(Analog output - 1ch)



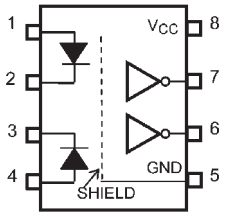
2: Open collector
(Digital output - 1ch)



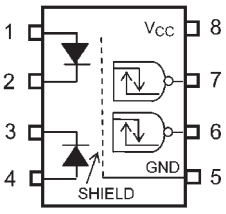
3: Totem pole (1ch)



4: Open collector
(Digital output - Dual)



5: Totem pole (Dual)



Part Number	Toshiba Replacement	Replacement Level (**Note:1**)	Data Rate (typ)	Output (**Note:2**)	PKG
HCPL-2219	TLP2955	B	5 Mbps	3	DIP8
HCPL-2231	TLP2105	B	5 Mbps	5	SO8
HCPL-2232	TLP2105	B	5 Mbps	5	SO8
HCPL-2601	TLP2601	A	10 Mbps	2	DIP8
HCPL-2611	TLP2601	A	10 Mbps	2	DIP8
HCPL-2630	TLP2662	A	10 Mbps	4	DIP8
HCPL-2631	TLP2662	A	10 Mbps	4	DIP8
HCPL-4502	TLP759	A	1 Mbps	1	DIP8
HCPL-4503	TLP759	A	1 Mbps	1	DIP8
HCPL-4504	TLP759	A	1 Mbps	1	DIP8
HCPL-4506	TLP754	A	1 Mbps	2	DIP8
HCPL-4661	TLP2662	A	10 Mbps	4	DIP8
HCPL-M452	TLP2309 / TLP104	A / S	1 Mbps	1 / 2	SO6
HCPL-M453	TLP2309 / TLP104	A / S	1 Mbps	1 / 2	SO6
HCPL-M454	TLP2309 / TLP104	A / S	1 Mbps	1 / 2	SO6
HCPL-M456	TLP104	S	1 Mbps	2	SO6
HCPL-M600	TLP2362	S	10 Mbps	2	SO6
HCPL-M601	TLP2362	S	10 Mbps	2	SO6
HCPL-M611	TLP2362	S	10 Mbps	2	SO6
PS8101	TLP2309 / TLP104	A / S	1 Mbps	1 / 2	SO6
PS8302L	TLP719	S	1 Mbps	1	SDIP6
PS8501	TLP751	A	1 Mbps	1	DIP8
PS8502	TLP759	A	1 Mbps	1	DIP8
PS8601	TLP751	A	1 Mbps	1	DIP8
PS8602	TLP759	A	1 Mbps	1	DIP8
PS8701	TLP2309 / TLP104	A / S	1 Mbps	1 / 2	SO6
PS8802	TLP2409 / TLP2404	A / S	1 Mbps	1 / 2	SO8
PS8821	TLP2409 / TLP2404	A / S	1 Mbps	1 / 2	SO8
PS9113	TLP104	A	1 Mbps	2	SO6
PS9115	TLP2366	S	20 Mbps	3	SO6
PS9117A	TLP2362	S	10 Mbps	2	SO6
PS9121	TLP2368	S	20 Mbps	2	SO6
PS9122	TLP2368	S	20 Mbps	2	SO6
PS9123	TLP2366	S	20 Mbps	3	SO6
PS9151	TLP2366	S	20 Mbps	3	SO6
PS9213	TLP104	A	1 Mbps	2	SO6
PS9214	TLP2362	S	10 Mbps	2	SO6
PS9303	TLP715	A	5 Mbps	3	SDIP6
PS9313L	TLP714	A	1 Mbps	2	SDIP6
PS9317L	TLP2768	A	20 Mbps	2	SDIP6
PS9513	TLP754	S	1 Mbps	2	DIP8
PS9587	TLP2601	A	10 Mbps	2	DIP8
PS9617	TLP2601	A	10 Mbps	2	DIP8
PS9817A-1	TLP2468	S	20 Mbps	2	SO8
PS9817A-2	TLP2168	S	20 Mbps	4	SO8
PS9821-1	TLP2468	S	20 Mbps	2	SO8
PS9821-2	TLP2168	S	20 Mbps	4	SO8
PS9822-1	TLP2468	S	20 Mbps	2	SO8
PS9822-2	TLP2168	S	20 Mbps	4	SO8
PS9851-1	TLP2466	S	20 Mbps	3	SO8
PS9851-2	TLP2160	S	20 Mbps	5	SO8
PC410L	TLP2362	S	10 Mbps	2	SO6
PC410S	TLP2468	S	20 Mbps	2	SO8
PC411S	TLP2466	S	20 Mbps	3	SO8
PC456L	TLP104	S	1 Mbps	2	SO6
PC457L	TLP2309/104	A / S	1 Mbps	1 / 2	SO6
PC457S	TLP2409/2404	A / S	1 Mbps	1 / 2	SO8
PC4D10	TLP2168	A	20 Mbps	4	SO8

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