TOSHIBA Photocoupler GaAs IRED & Photo-Transistor

TLP785,TLP785F

Office Equipment

Household Appliances

Solid State Relays

Switching Power Supplies

Various Controllers

Signal Transmission Between Different Voltage Circuits

The TOSHIBA TLP785 consists of a silicone phototransistor optically coupled to a gallium arsenide (GaAs) infrared emitting diode in a four lead plastic DIP (DIP4) with having high isolation voltage (AC: 5kV_{RMS} (min)).

TLP785F is a lead forming type for the long creepage surface mounting of TLP785.

- TLP785: 7.62mm pitch type DIP4
- TLP785F: 10.16mm pitch type DIP4
- Collector-emitter voltage: 80V (min.)
- Current transfer ratio: 50% (min.)

Rank GB: 100% (min.)

- Isolation voltage: 5000V_{rms} (min.)
- UL approved: UL1577, file No. E67349
- BSI under application: BS EN60065:2002

BS EN60950-1:2006

SEMKO under application: EN60065:2002

EN60950-1:2001, EN60335-1:2002

• Option(D4)type

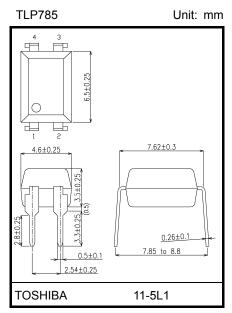
VDE approved: DIN EN60747-5-2

(Note): When an EN60747-5-2 approved type is needed,

Please designate "Option (D4)"

Construction mechanical rating

	7.62mm Pitch Standard Type	10.16mm Pitch TLPxxxF Type
Creepage distance	7.0mm(min)	8.0mm(min)
Clearance	7.0mm(min)	8.0mm(min)
Insulation thickness	0.4mm(min)	0.4mm(min)
Inner creepage distance	4.0mm(min)	4.0mm(min)



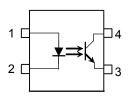
Weight: 0.32 g (typ.)

TLP785F Unit: mm

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Weight: 0.32g (typ.)

Pin Configurations (top view)



- 1: Anode
- 2: Cathode
- 3: Emitter
- 4 : Collector



Current Transfer Ratio

Туре	Classification (Note 1)	(l _C	sfer Ratio (%) / I _F) = 5V, Ta = 25°C Max	Marking of Classification
	None	50	600	Blank
	Rank Y	50	150	YE
	Rank GR	100	300	GR
	Rank BL	200	600	BL
TLP785	Rank GB	100	600	GB
	Rank YH	75	150	Y+
	Rank GRL	100	200	G
	Rank GRH	150	300	G+
	Rank BLL	200	400	В

(Note 1): Ex. rank GB: TLP785 (GB)

(Note 2): Application type name for certification test, please use standard product type name, i. e. TLP785 (GB): TLP785

Absolute Maximum Ratings (Ta = 25°C)

	Characteristic		Symbol	Rating	Unit
	Forward current		lF	60	mA
	Forward current derating (Ta ≥ 39°C)		ΔI _F / °C	-0.7	mA / °C
	Pulse forward current (N	Note 3)	I _{FP}	1	А
ED	Power dissipation		P _D	90	mW
	Power dissipation derating		ΔP _D / °C	-0.9	mW / °C
	Reverse voltage		V _R	5	V
	Junction temperature		Tj	125	°C
	Collector-emitter voltage		V _{CEO}	80	V
	Emitter-collector voltage		V _{ECO}	7	V
ţç	Collector current		IC	50	mA
Detector	Power dissipation (single circuit)		PC	150	mW
	Power dissipation derating (Ta ≥ 25°C)		ΔP _C / °C	-1.5	mW / °C
	Junction temperature		Тj	125	°C
Оре	rating temperature range		T _{opr}	−55 to 110	°C
Stor	age temperature range		T _{stg}	-55 to 125	°C
Lea	d soldering temperature (10s)		T _{sol}	260	°C
Tota	Total package power dissipation		P _T	240	mW
	al package power dissipation derating ≥ 25°C)		ΔP _T / °C	-2.4	mW / °C
Isola	ation voltage (N	lote 4)	BV _S	5000	V _{rms}

(Note): Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

(Note 3): 100 µs pulse, 100 Hz frequency

(Note 4): AC, 1 min., R.H.≤ 60%. Apply voltage to LED pin and detector pin together.

Recommended Operating Conditions (Note)

Characteristic	Symbol	Min	Тур.	Max	Unit
Supply voltage	V _{CC}	-	5	24	٧
Forward current	lF	_	16	25	mA
Collector current	IC	_	1	10	mA
Operating temperature	T _{opr}	-25	-	85	°C

(Note): Recommended operating conditions are given as a design guideline

to obtain expected performance of the device.

Additionally, each item is an independent guideline respectively.

In developing designs using this product, please confirm

specified characteristics shown in this document.

Individual Electrical Characteristics (Ta = 25°C)

	Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
	Forward voltage	V _F	I _F = 10 mA	1.0	1.15	1.3	V
E	Reverse current	I _R	V _R = 5 V	_	_	10	μА
	Capacitance	C _T	V = 0V, f = 1 MHz	_	30	_	pF
	Collector-emitter breakdown voltage	V _(BR) CEO	I _C = 0.5 mA	80	_	_	V
ctor	Emitter-collector breakdown voltage	V _(BR) ECO	I _E = 0.1 mA	7	_	_	V
Detector	Collector dark current	l=/l===)	V _{CE} = 24 V	_	0.01	0.1	μΑ
	Collector dark current	I _D (I _{CEO})	V _{CE} = 24 V ,Ta = 85°C	_	0.6	50	μΑ
	Capacitance (collector to emitter)	C _{CE}	V = 0V, f = 1 MHz	_	6	_	pF

Coupled Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	า	Min	Тур.	Max	Unit
Current transfer ratio	Ic / I _E	I _F = 5 mA, V _{CE} = 5 V		50	_	600	%
Current transfer fatto	10 / IF		Rank GB	100	-	600	70
Saturated CTR	I _C / I _{F (sat)}	IF = 1 mA, V _{CE} = 0.4 V		I	60	1	%
Saturated CTN	iC7 iF (sat)		Rank GB	30	ı	1	70
		I _C = 2.4 mA, I _F = 8 mA		_	_	0.4	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 0.2 mA, I _F = 1 mA			0.2		V
			Rank GB	_	_	0.4	

Isolation Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Capacitance (input to output)	C _S	V _S = 0V, f = 1 MHz	-	0.8	_	pF
Isolation resistance	R _S	V _S = 500 V	1×10 ¹²	10 ¹⁴	-	Ω
		AC, 1 minute	5000	_	-	.,
Isolation voltage	BV_S	AC, 1 second, in oil	_	10000	-	V _{rms}
		DC, 1 minute, in oil	_	10000	_	Vdc

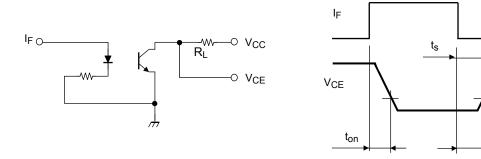
V_{CC} -4.5V

_0.5V

toff

Switching Characteristics (Ta = 25°C)

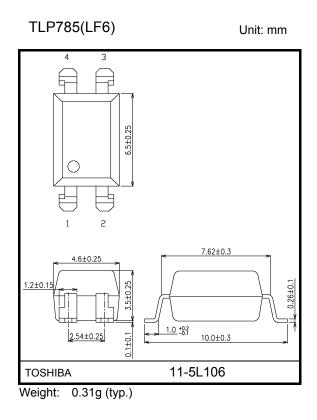
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Rise time	t _r		_	2	_	
Fall time	t _f	V _{CC} = 10 V, I _C = 2 mA	_	3	_	
Turn-on time	t _{on}	$R_L = 100\Omega$	_	3	_	μS
Turn-off time	t _{off}		_	3	_	
Turn-on time	t _{on}		_	1.5	_	
Storage time	ts	$R_L = 1.9 \text{ k}\Omega$ (fig. 1) $V_{CC} = 5 \text{ V}, I_F = 16 \text{ mA}$	_	25	_	μS
Turn-off time	t _{off}		_	50	_	

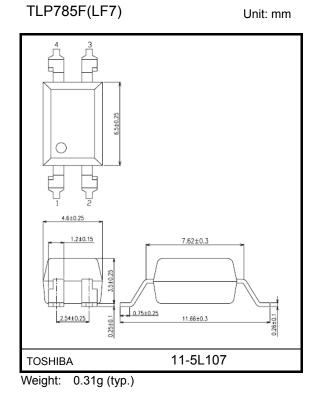


(fig. 1): Switching time test circuit

4

Surface-Mount Lead Form Option





2012-02-20

Option: Specifications for Embossed-Tape Packing; (TP6)/(TP7)

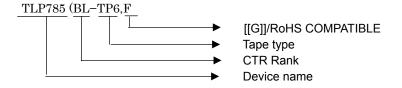
1. Applicable Package

Package Name	Product Type
DIP4LF6	TLP785
DIP4LF7	TLP785F

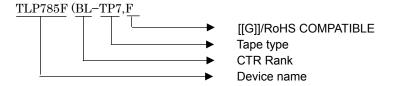
2. Product Naming System

Type of package used for shipment is denoted by a symbol suffix after a product number. The method of classification is as below.

(Example)



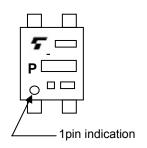
(Example2)



3. Tape Dimensions

3.1 Orientation of Device in Relation to Direction of Tape Movement

Device orientation in the recesses is as shown in Figure 2.



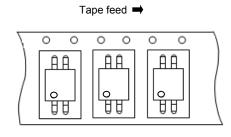


Figure 2 Device Orientation

3.2 Tape Packing Quantity: 2000 devices per reel

3.3 Empty Device Recesses Are as Shown in Table 1.

Table1 Empty Device Recesses

	Standard	Remarks
Occurrences of 2 or more successive empty device recesses	0	Within any given 40-mm section of tape, not including leader and trailer
Single empty device recesses	6 devices (max.) per reel	Not including leader and trailer

3.4 Start and End of Tape

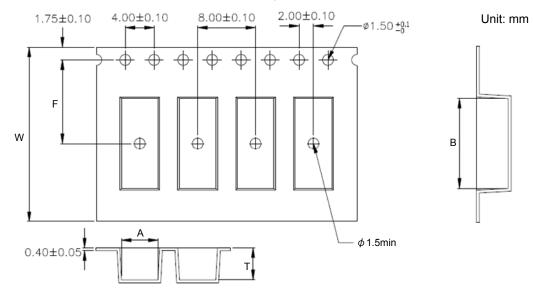
The start of the tape has 30 or more empty holes. The end of the tape has 50 or more empty holes.

3.5 Tape Specification

[1] TLP785(TP6) / TLP785F(TP7)

(1)Tape material: Plastic

(2)Dimensions: The tape dimensions are as shown in Figure 3.



	TP6 Type	TP7Type
Α	5.1±0.1	5.05±0.1
В	10.6±0.1	12.35±0.1
W	16.0±0.3	24.0±0.3
F	7.5±0.1	11.5±0.1
Т	4.2±0.15	4.4±0.1

Figure 3 Tape Forms

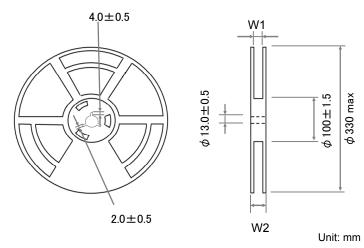


3.6 Reel Specification

[1] TLP785(TP6) / TLP785F(TP7)

(1)Material: Plastic

(2)Dimensions: The reel dimensions are as shown in Figure 4.



/	TP6 Type	TP7 Type
W1	16.5typ	24.4typ
W2	23max	30.4max

Figure 4 Reel Forms

4. Packing

Two reels of photocouplers are packed in a shipping carton.

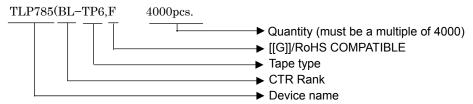
5. Label Indication

The carton bears a label indicating the product number, the symbol representing classification of standard, the quantity, the lot number and the Toshiba company name.

6. Ordering Information

When placing an order, please specify the product number, the CTR rank, the tape type and the quantity as shown in the following example.

(Example)



(Note): The order code may be suffixed with a letter or a digit.

Please contact your nearest Toshiba sales representative for more details.

Soldering and Storage

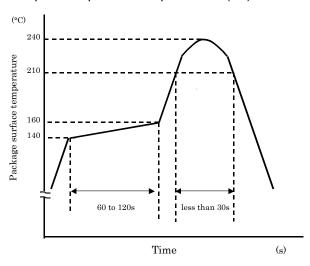
1. Soldering

1.1 Soldering

When using a soldering iron or medium infrared ray/hot air reflow, avoid a rise in device temperature as much as possible by observing the following conditions.

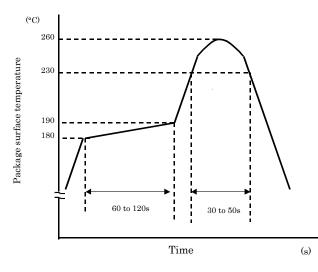
1) Using solder reflow

·Temperature profile example of lead (Pb) solders



This profile is based on the devices maximum heat resistance guaranteed value. Set the preheat temperature/heating temperature to the optimum temperature corresponding to the solder paste type used by the customer within the described profile.

·Temperature profile example of using lead (Pb)-free solders



This profile is based on the devices maximum heat resistance guaranteed value. Set the preheat temperature/heating temperature to the optimum temperature corresponding to the solder paste type used by the customer within the described profile.

2) Using solder flow (for lead (Pb) solder, or lead (Pb)-free solder)

Please preheat it at 150°C between 60 and 120 seconds.

Complete soldering within 10 seconds below 260°C. Each pin may be heated at most once.

3) Using a soldering iron

Complete soldering within 10 seconds below 260°C, or within 3 seconds at 350°C. Each pin may be heated at most once.

8



2. Storage

- 1) Avoid storage locations where devices may be exposed to moisture or direct sunlight.
- 2) Follow the precautions printed on the packing label of the device for transportation and storage.
- 3) Keep the storage location temperature and humidity within a range of 5°C to 35°C and 45% to 75%, respectively.
- 4) Do not store the products in locations with poisonous gases (especially corrosive gases) or in dusty conditions.
- 5) Store the products in locations with minimal temperature fluctuations. Rapid temperature changes during storage can cause condensation, resulting in lead oxidation or corrosion, which will deteriorate the solderability of the leads.
- 6) When restoring devices after removal from their packing, use anti-static containers.
- 7) Do not allow loads to be applied directly to devices while they are in storage.
- 8) If devices have been stored for more than two years under normal storage conditions, it is recommended that you check the leads for ease of soldering prior to use.

9



EN60747-5-2 'Option: (D4)'

Attachment: Specification for EN60747-5-2 option: (D4)

Types: TLP785, TLP785F

Type designations for 'option: (D4)', which are tested under EN60747 requirements.

Ex.: TLP785(D4-GR-LF6,F D4: EN60747 option

GR: CTR rank name

LF6: standard lead bend name F: [[G]]/RoHS COMPATIBLE

Note: Use TOSHIBA standard type number for safety standard application.

Ex. TLP785(D4-GR-LF6,F \rightarrow TLP785

EN60747 Isolation Characteristics

Description		Symbol	Rating	Unit
Application classification				
for rated mains voltage ≤ 300 V _{rms} for rated mains voltage ≤ 600 V _{rms}			I–IV I–III	_
Climatic classification			55 / 115 / 21	_
Pollution degree	ee e		2	_
Maximum operating insulation voltage	TLP785	V	890	- Vpk
	TLP785F	VIORM	1140	
Input to output test voltage, $Vpr = 1.5 \times V_{IORM}$, type and sample test $t_p = 10s$, partial discharge < 5pC	TLP785		1335	- Vpk
	TLP785F	V _{pr}	1710	
Input to output test voltage, $Vpr = 1.875 \times V_{IORM}$, 100% production test $t_p = 1s$, partial discharge < 5pC	TLP785	.,	1670	- Vpk
	TLP785F	V _{pr}	2140	
Highest permissible overvoltage (transient overvoltage, t _{pr} = 60s)		V _{TR}	8000	Vpk
Safety limiting values (max. permissible ratings in case of fault) current (input current) $P_{si} = 0 \text{mW}$ power (output or total power dissipation) temperature		I _{si} P _{si} T _{si}	400 700 175	mA mW °C
Insulation resistance, V _{IO} = 500V,Ta=25°C		Rsi	≥10 ¹²	Ω

Insulation Related Specifications

		7.62mm pitch TLPxxx type	10.16mm pitch TLPxxxF type
Minimum creepage distance	Cr	7.0mm	8.0mm
Minimum clearance	CI	7.0mm	8.0mm
Minimum insulation thickness	ti	0.4 mm	
Comparative tracking index	СТІ	175	

- (1) If a printed circuit is incorporated, the creepage distance and clearance may be reduced below this value. (e.g.at a standard distance between soldering eye centres of 7.5mm). If this is not permissible, the user shall take suitable measures.
- (2) This photocoupler is suitable for 'safe electrical isolation' only within the safety limit data. Maintenance of the safety data shall be ensured by means of protective circuits.

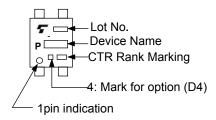
VDE test sign: Marking on product for EN60747

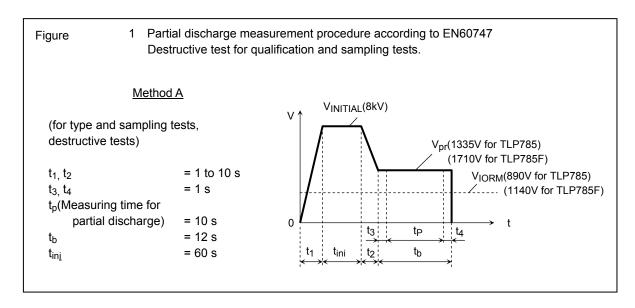
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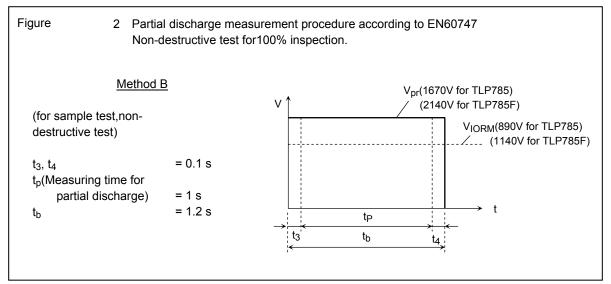
Marking on packing for EN60747

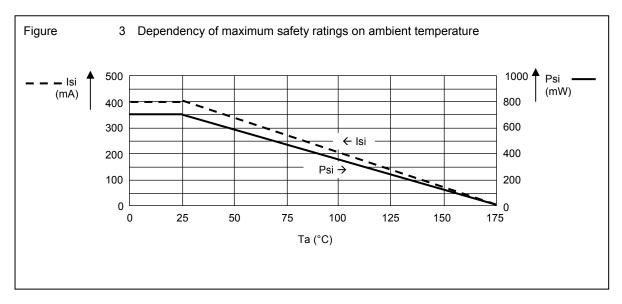


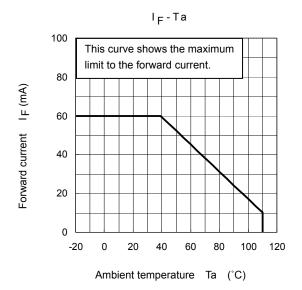
Marking Example: TLP785, TLP785F

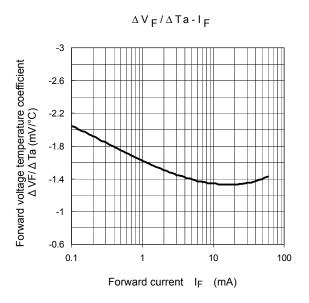


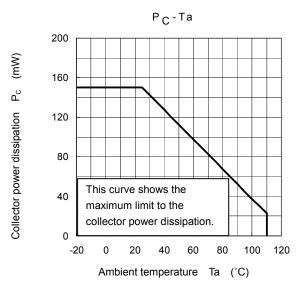


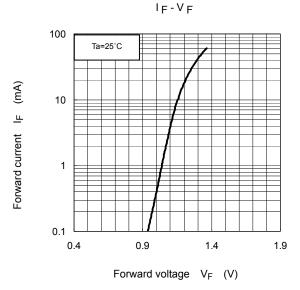


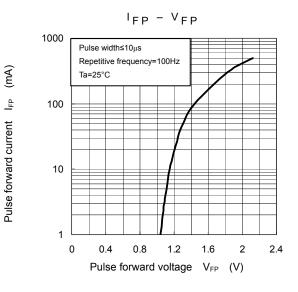




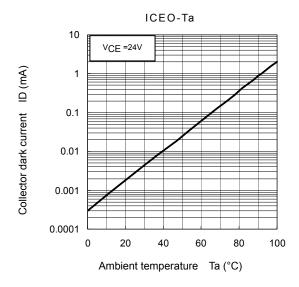


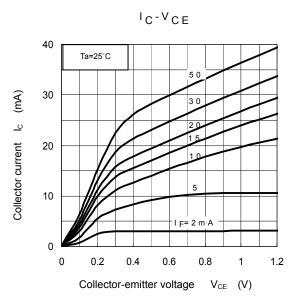


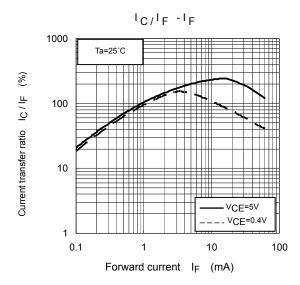


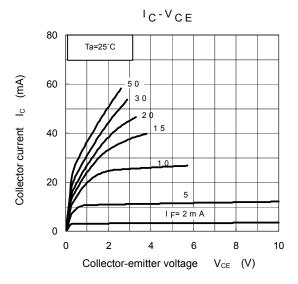


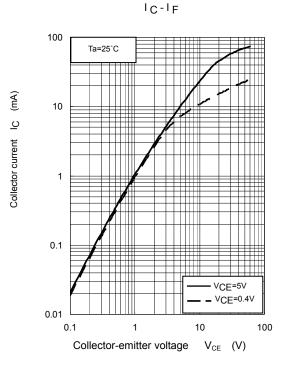
^{*}The above graphs show typical characteristic.



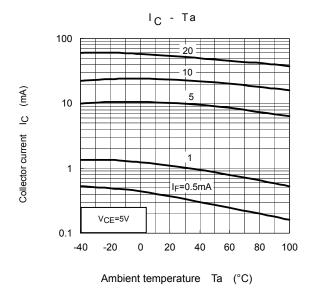


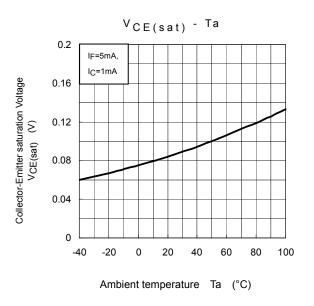


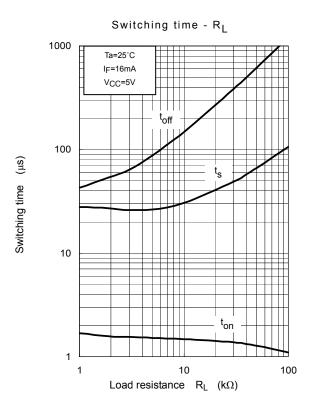




^{*}The above graphs show typical characteristic.







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