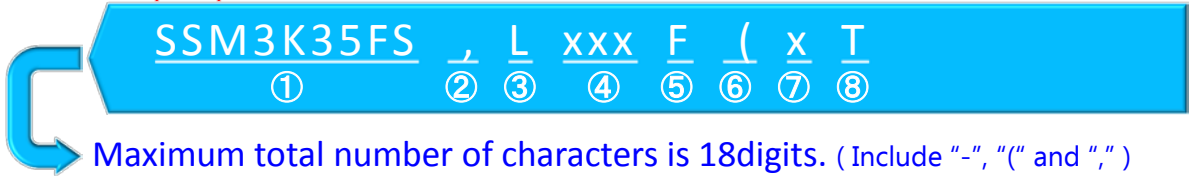


## Part Name Conventions

## for MOSFET, Transistor, Diode and LMOS etc.

Example of a product name



- ① → Product Name  
General rule 10 characters include hFE classification
- ② → Separators Symbol “ , ” \*Not be omitted
- ③ → Taping and Stick abbreviation Code \*Within 3 characters \*(Refer to table-1)
- ④ → Abbreviations of the Customer Name
- ⑤ → Structural Segmentation Code \*(Refer to table-2)
- ⑥ → Separators Symbol “ ( ” \*Not be omitted
- ⑦ → Internal Control Code

Control Code	Contents
C	Completely lead-free + Halogen-free and B'g wire Au → Cu
V	Lead-free only lead terminal + Halogen-free and B'g wire Au → Cu

- ⑧ → Manufacturing Base Code

Base Code	Contents
O	Japan products that used same material with global products
A	Japan products that used different material with global products
T	(TST) products
M	(Amkor Technology Malaysia Sdn. Bhd.) products
H	(TSW) products
S	“Out-source” products
Sx	“x” is added number of multiple “Out-source” deployment *(Refer to table-3)
B	(TST) re-startup products after Oct/2012. (used to “T” on the shipping label)
D	“Out-source” products with drop shipping

**Table-1: ③ Taping and Stick abbreviation**

	Official Name	Comment	Code		Official Name	Comment	Code	
12mm width	TE12L		L	Paper Tape	TPE2	SSTM PKG	T2	
	TE12R		R		TPE4	SSTM PKG	T4	
4mm Pitch	TE85L		L	24mm width	TPE6	LSTM PKG	T6	
	TE85R		R		TE24L	TO-220SM PKG	L	
	TE85L2	10kp/reel	L2	TE24R	TFP PKG	R		
	TPH3		H3	16mm width	TE16L	PW-Mold PKG	L	
	TPHR3		HR3		TE16R		R	
2mm Pitch	TPL3		L3		TE16L1	New PW-Mold PKG	L1	
	TPLR3	Right direction reel	LR3		TE16R1		R1	
4mm Pitch	TPH2		H2	Stick	STC1	TO-220NIS PKG TO-220SIS PKG	S1	
2mm Pitch	TPL2		L2		STA2		S2	
4mm Pitch	TPH4	VCD pair	H4		STA4		S4	
	TPH6		H6		STA1	S1		
	TPH7		H7		STA2	TO-3P(N) PKG	S2	
	TPH8		H8		STA3	S3		
2mm Pitch	TPL8		L8		Lead-Bend + Stick	LBSTC1	TO-220NIS PKG TO-220SIS PKG	LS1
4mm Pitch	TPH9	3kp/reel	H9			LBSTA2		LS2
	TPH10	4kp+Non-reflective tape	H10	LBSTA4		LS4		
	TPH12		H12	Large-diameter reel  (300mmΦ)	TE85L3	4mm Pitch	3L	
Large-diameter reel	TPH13	4mm P 10kp/reel	H13		TE85R3		3R	
	TPL13	2mm P 30kp/reel	L13		TPH5		H5	
Back Side Code (BSC)	**EL	** Without BSC	**EL		TPL5	2mm Pitch	L5	
	**LC	** With BSC	**LC		TPLR5		R5	

\*\* Applied (ASE) Out-source product “WCSP6/8/12/16/24”

**Table-2: ⑤ Structural Segmentation Code**

Structure Code	Contents
Q	Applied Lead-free only lead terminal + Halogen-free
F	Completely lead-free + Halogen-free
M	Using a Matrix-line (when classification is necessary)
J	Shrink Chip of LMOS
G	Limited use (Completely lead-free + conventional mold-resin )
E	Limited use (When display of "E" is necessary and Completely lead-free + Halogen-free )
X	Limited use (When display of "X" is necessary and lead-free only lead terminal + Halogen-free )
C	“Completely lead-free + Halogen-free and B’g wire Au → Cu” by Customer request
V	“Lead-free only lead terminal + Halogen-free and B’g wire Au → Cu” by Customer request

**Table-3: Out-source deployment Information**

Package	1'st company	2'nd company	3'rd company
SOT-23	Jiangsu Changjiang (江苏长电)	-	-
SOT-323	Jiangsu Changjiang (江苏长电)	-	-
Chip BGA	Casio Micro	ASE	-
WCSP4	ASE	-	-
TO-220FP	ASE	-	-
TO-220AB(3L)	ASE	MINGXIN	-
TO-220AB(2L)	MINGXIN	-	-
SOP Advance	ASE	-	-
TSON Advance	ASE	-	-
SOP-8	ASE	-	-
DPAK	GEM	ASE	-
TO-3P(N)	ASE	-	-
TO-220SM	MINGXIN	-	-
QFN	ASE	-	-

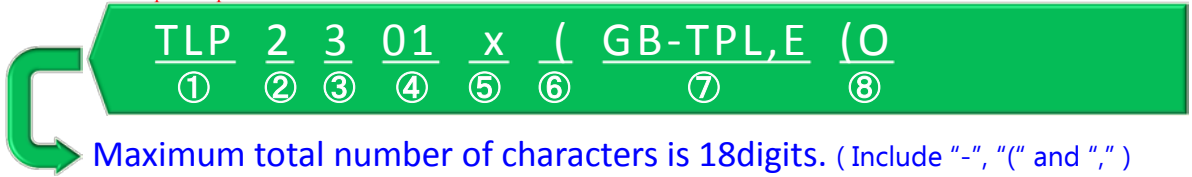
※ Except ATM (Amkor Technology Malaysia) products.

# Part Name Conventions

## for Photo Coupler

### New Part Name Conventions

Example of a product name



① → TOSHIBA Photo Coupler

② → Product Categories-1

Number	Product Categories
2	IC (Logic, IPM driver)
3	MOSFET (Photo relay, Normally open contact) / triac / Photovoltaic
4	MOSFET (Photo relay others)
5	IC (Power device driver)
7	Isolation amplifier

③ → Product Categories-2 \*(This is related to ②Product Category-1)

For the products whose 2<sup>nd</sup> clause is "3".

Number	Categories, Package, etc.
0	Triac (standard type)
1	MOSFET (Photo relay) SOP
2	MOSFET (Photo relay) SSOP
3	MOSFET (Photo relay) USOP
4	MOSFET (Photo relay) VSON
5	MOSFET (Photo relay) DIP
7	Triac (High noise immunity type)
9	Photovoltaic

For the products whose 2<sup>nd</sup> clause is "2", "5" and "7".

Number	Categories, Package, etc.
0	SO4 / MFSOP6
1	SO8 (Dual channel)
2	SO8L (Dual channel) / SO16L
3	SO6
4	SO8 (Single channel)
6	DIP8 (Dual channel)
7	SDIP6 / SO6L
8	SO8L (Single channel)
9	DIP8 (Single channel)

④ ➔ Output Style \*Output Form and Others

For triac output

Number	type	Number	type	Number	type
20 ~ 29	400V NZC	50 ~ 59	600V NZC	70 ~ 79	800V NZC
40 ~ 49	400V ZC	60 ~ 69	600V ZC	80 ~ 89	800V ZC

For MOSFET output (Photo relay) **except the case that 3<sup>rd</sup> clause is "5"**\*

Number	type	Number	type
00 ~ 09	High current	40 ~ 69	Low COFF
10 ~ 19	Standard		

\* MOSFET (Photo relay) of "TLP35xx" is classified high current type.

For Photovoltaic output

Number	type	Number	type
00 ~ 19	Standard / Low COFF	20 ~ 29	High Voc

⑤ ➔ Additional Number \*(This number may or may not be given.)

⑥ ➔ Separators Symbol " ( " \*Not be omitted

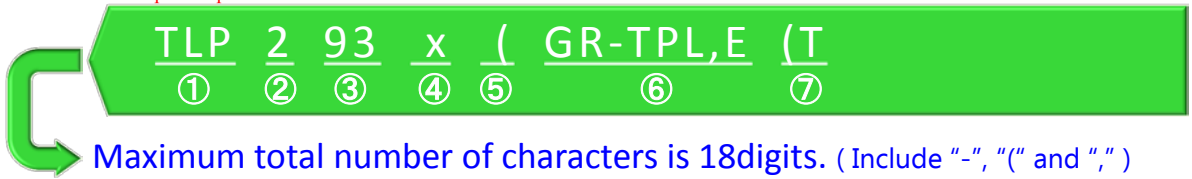
⑦ ➔ Safety Std., Taping, Lead forming, Rank, Customer, Plating etc. Specification

⑧ ➔ Manufacturing Base Code

Code	Manufacturing
(O)	Japan Product
(T)	(TST) Product
(C)	OEM Product * Applied to TLP785

# Old·Part Name Conventions

Example of a product name



① → [TOSHIBA Photo Coupler](#)

② → [Package type](#)

Number	Package
1	SOP
2	SOP / SOP 4ch / DIP (2500Vrms/5000Vrms)
3	DIP (3750Vrms/5000Vrms) / SOP6L (Transistor Coupler)
4	DIP4(5000Vrms)
5	DIP (2500Vrms)
6	DIP (5000Vrms)
7	DIP (4000Vrms)

③ → [Output Style, etc.](#)

Number	Output style, etc	Number	Output style, etc
00 ~ 09	IC, MOSFET	50 ~ 59	IC
10 ~ 19	IC	60 ~ 69	Triac
20 ~ 29	4/8/16pin Multi channel	70 ~ 79	Darlington transistor, MOSFET
30 ~ 39	6pin	80 ~ 89	Transistor
40 ~ 49	Thyristor, MOSFET	90 ~ 99	Transistor, MOSFET, Photovoltaic

④ → Additional Number \*(May not indicated)

Applied MOSFET Output Product

Alphabet	Off-State Voltage (V <sub>OFF</sub> )
A	40, 60V
D	200V
G	350V
GA	400V
J	600V

Applied Triac/Thyristor Output Product

Alphabet	Off-State Output Terminal Voltage (V <sub>DRM</sub> )
G	400V
J	600V
L	800V

⑤ → Separators Symbol “ ( “ \*Not be omitted

⑥ → Safety Std., Taping, Lead forming, Rank, Customer, Plating etc Information

⑦ → Manufacturing Base Code

Code	Manufacturing
(O	Japan Product
(T	(TST) Product
(C	OEM Product * Applied to TLP785