

TOSHIBA

Leading Innovation >>>



**Addition of CTR Rank Code
Supplementary document
(Applicable product name and CTR rank)**

1. CTR Rank that might be included in ordered delivery (Applicable product & CTR Rank)

1) Applicable products : TLP184/185/290/291

Applicable CTR Rank (red letter)

Applicable product	CTR Rank	Rank abbreviation	CTR Specification (%)	CTR Rank that might be included in ordered delivery		Applicable product list
				Before	After	
TLP184 TLP290	Standard	—	50~400*	No Cord, YE, GR, GB, B	Same as on the left (No change)	—
	Y	—	50~150*	YE	Same as on the left (No change)	—
	GR	—	100~300*	GR	Same as on the left (No change)	—
	BLL	B	200~400*	B	Same as on the left (No change)	—
	GB	—	100~400*	GB	GB, GR, B	Refer to P.6
TLP185 TLP291	Standard	—	50~400*	No Cord, YE, GR, GB, Y+, G, G+, B	Same as on the left (No change)	—
	Y	—	50~150*	YE	YE, Y+	Refer to P.6
	GR	—	100~300*	GR	GR, G, G+	Refer to P.6
	GB	—	100~400*	GB	GB, GR, G, G+, B	Refer to P.6
	YH	—	75~150*	Y+	Same as on the left (No change)	—
	GRL	GL	100~200*	G	Same as on the left (No change)	—
	GRH	GH	150~300*	G+	Same as on the left (No change)	—
	BLL	B	200~400*	B	Same as on the left (No change)	—

1. CTR Rank that might be included in ordered delivery (Applicable product & CTR Rank)

2) Applicable product : TLP184(SE / 185(SE / 290(SE / 291(SE / 385 **Applicable CTR Rank (red letter)**)

Applicable product	CTR Rank	Rank abbreviation	CTR Specification (%)	CTR Rank that might be included in ordered delivery		Applicable product list
				Before	After	
TLP184(SE TLP290(SE	Standard	—	50~600*	No Cord, YE, GR, GB, BL	Same as on the left (No change)	—
	Y	—	50~150*	YE	Same as on the left (No change)	—
	GR	—	100~300*	GR	Same as on the left (No change)	—
	BL	—	200~600*	BL	Same as on the left (No change)	—
	GB	—	100~600*	GB	GB, GR, BL	Refer to P.7
TLP185(SE TLP291(SE TLP385	Standard	—	50~600**	No Code, YE, Y+, GR, GB, G, G+, BL, B	Same as on the left (No change)	—
	Y	—	50~150**	YE	YE, Y+	Refer to P.7
	GR	—	100~300**	GR	GR, G, G+	Refer to P.7
	BL	—	200~600**	BL	BL, B	Refer to P.7
	GB	—	100~600**	GB	GB, GR, G, G+, BL, B	Refer to P.7
	YH	—	75~150**	Y+	Same as on the left (No change)	—
	GRL	GL	100~200**	G	Same as on the left (No change)	—
	GRH	GH	150~300**	G+	Same as on the left (No change)	—
BLL	B	200~400**	B	Same as on the left (No change)	—	

1. CTR Rank that might be included in ordered delivery (Applicable product & CTR Rank)

3) Applicable product : TLP182 / 183 / 292 / 293 / 383

Applicable CTR Rank (red letter)

Applicable product	CTR Rank	Rank abbreviation	CTR Specification (%)	CTR Rank that might be included in ordered delivery		Applicable product list
				Before	After	
TLP182 TLP292	Standard	—	50~600*	No Cord, YE, GR, GB, BL	Same as on the left (No change)	—
	Y	—	50~150*	YE	Same as on the left (No change)	—
	GR	—	100~300*	GR	Same as on the left (No change)	—
	BL	—	200~600*	BL	Same as on the left (No change)	—
	GB	—	100~600*	GB	GB, GR, BL	Refer to P.8
TLP183 TLP293 TLP383	Standard	—	50~600**	No Cord, YE, Y+, GR, GB, G, G+, BL, B	Same as on the left (No change)	—
	Y	—	50~150**	YE	Same as on the left (No change)	—
	GR	—	100~300**	GR	Same as on the left (No change)	—
	BL	—	200~600**	BL	Same as on the left (No change)	—
	GB	—	100~600**	GB	GB, GR, BL	Refer to P.8
	YH	—	75~150***	Y+	Same as on the left (No change)	—
	GRL	GL	100~200***	G	Same as on the left (No change)	—
	GRH	GH	150~300***	G+	Same as on the left (No change)	—
	BLL	B	200~400***	B	Same as on the left (No change)	—

1. CTR Rank that might be included in ordered delivery (Applicable product & CTR Rank)

4) Applicable product : TLP290-4 / 291-4 / 292-4 / 293-4

Applicable CTR Rank (red letter)

Applicable product	CTR Rank	Rank abbreviation	CTR Specification (%)	CTR Rank that might be included in ordered delivery		Applicable product list
				Before	After	
TLP290-4 TLP291-4	Standard	—	50~400*	No Cord	No Cord, GB	Refer to P.8
	GB	—	100~400*	GB	Same as on the left (No change)	—
TLP292-4 TLP293-4	Standard	—	50~600*	No Cord	No Cord, GB	Refer to P.8
	GB	—	100~600*	GB	Same as on the left (No change)	—
	LA	—	50~600**	LA	LA, LB	Refer to P.8
	LGB	—	100~600**	LB	Same as on the left (No change)	—

* Test condition : @ $I_F = \pm 5\text{mA}$ OR $I_F = 5\text{mA}$, $V_{CE} = 5\text{V}$, $T_a = 25^\circ\text{C}$

**Test condition : @ $I_F = \pm 0.5\text{mA}$ OR $I_F = 0.5\text{mA}$, $V_{CE} = 5\text{V}$, $T_a = 25^\circ\text{C}$

5) Applicable product : TLP188 / TLP2301 / TLP2701

Applicable CTR Rank (red letter)

Applicable product	CTR Rank	Rank abbreviation	CTR Specification (%)	CTR Rank that might be included in ordered delivery		Applicable product list
				Before	After	
TLP188	Standard	—	50~600*	No Cord	No Cord, GB	Refer to P.8
	GB	—	100~600*	GB	Same as on the left (No change)	—
TLP2301 TLP2701	Standard	—	50~600**	No Cord	No Cord, GB	Refer to P.8
	GB	—	100~600**	GB	Same as on the left (No change)	—

* Test condition : @ $I_F = 5\text{mA}$, $V_{CE} = 5\text{V}$, $T_a = 25^\circ\text{C}$

**Test condition : @ $I_F = 1\text{mA}$, $V_{CE} = 5\text{V}$, $T_a = 25^\circ\text{C}$

2. Applicable product list

TLP184

CTR Rank	Product Name
GB Rank	TLP184(GB,E(O
	TLP184(GB,E(T
	TLP184(GB-TPL,E(O
	TLP184(GB-TPL,E(T
	TLP184(GB-TPR,E(O
	TLP184(GB-TPR,E(T
	TLP184(V4-GB,E(O
	TLP184(V4GB-TL,E(O
	TLP184(V4GB-TR,E(O
	TLP184(V4GB-TR,E(T

TLP290

CTR Rank	Product Name
GB Rank	TLP290(GB,E(O
	TLP290(GB,E(T
	TLP290(GB-TP,E(O
	TLP290(GB-TP,E(T
	TLP290(LUTGBTR,E(O
	TLP290(MBGBTP,SE(O
	TLP290(V4-GB,E(O
	TLP290(V4-GB,E(T
	TLP290(V4GB-TP,E(O
	TLP290(V4GB-TP,E(T
	TLP290(V4GB-TP,E(O
	TLP290(V4GB-TP,E(T
	TLP290(V4GB-TP,E(T

TLP185

CTR Rank	Product Name	
Y Rank	TLP185(V4-Y,E(O	
	TLP185(V4-Y-TL,E(O	
	TLP185(V4-Y-TR,E(O	
	TLP185(Y,E(O	
	TLP185(Y-TPL,E(O	
	TLP185(Y-TPR,E(O	
	GR Rank	TLP185(GR,E(O
		TLP185(GR,E(T
		TLP185(GR-TPL,E(O
		TLP185(GR-TPL,E(T
TLP185(GR-TPR,E(O		
TLP185(GR-TPR,E(T		
TLP185(GR-TPRS,E(O		
TLP185(UR-GRTR,E(O		
TLP185(V4-GR,E(O		
TLP185(V4GR-TL,E(O		
TLP185(V4GR-TL,E(T		
TLP185(V4GR-TR,E(O		
TLP185(V4GR-TR,E(T		

TLP185

CTR Rank	Product Name
GB Rank	TLP185(GB,E(O
	TLP185(GB,E(T
	TLP185(GB-TPL,E(O
	TLP185(GB-TPL,E(T
	TLP185(GB-TPR,E(O
	TLP185(GB-TPR,E(T
	TLP185(HITMGBTLE(O
	TLP185(HOGB-TL,E(O
	TLP185(PSEGBTL,E(O
	TLP185(V4-GB,E(O
	TLP185(V4GB-TL,E(O
	TLP185(V4GB-TL,E(T
	TLP185(V4GB-TR,E(O
	TLP185(V4GB-TR,E(T

TLP291

CTR Rank	Product Name
Y Rank	TLP291(Y,E(O
	TLP291(Y-TP,E(O
	TLP291(V4-Y,E(O
	TLP291(V4-Y-TP,E(O
GR Rank	TLP291(GR,E(O
	TLP291(GR-TP,E(O
	TLP291(GR-TP,E(T
	TLP291(V4-GR,E(O
	TLP291(V4GR-TP,E(O
GB Rank	TLP291(GB,E(O
	TLP291(GB-TP,E(O
	TLP291(GB-TP,E(T
	TLP291(V4-GB,E(O
	TLP291(V4GB-TP,E(O
	TLP291(V4GB-TP,E(T

2. Applicable product list

TLP184(SE)

CTR Rank	Product Name
GB Rank	TLP184(GB,SE(T
	TLP184(GB-TPL,SE(T
	TLP184(GB-TPR,SE(T
	TLP184(V4-GB,SE(T
	TLP184(V4GBTL,SE(T
	TLP184(V4GBTR,SE(T

TLP290(SE)

CTR Rank	Product Name
GB Rank	TLP290(GB,SE(T
	TLP290(GB-TP,SE(T
	TLP290(GB-TP,SE(O
	TLP290(MBDGBTPSE(T
	TLP290(MBGBTP,SE(T
	TLP290(V4-GB,SE(T
	TLP290(V4GBTP,SE(T
	TLP290(V4GBTP,SE(O

TLP185(SE)

CTR Rank	Product Name	
Y Rank	TLP185(Y,SE(O	
	TLP185(Y,SE(T	
	TLP185(Y-TPL,SE(O	
	TLP185(Y-TPL,SE(T	
	TLP185(Y-TPR,SE(T	
	TLP185(V4-Y,SE(T	
	TLP185(V4Y-TL,SE(T	
	TLP185(V4Y-TR,SE(T	
	GR Rank	TLP185(GR,SE(T
		TLP185(GR-TPL,SE(O
TLP185(GR-TPL,SE(T		
TLP185(GR-TPR,SE(O		
TLP185(GR-TPR,SE(T		
TLP185(V4-GR,SE(T		
TLP185(V4GRTL,SE(O		
TLP185(V4GRTL,SE(T		
TLP185(V4GRTR,SE(T		
TLP185(HBSGRTLSE(T		
TLP185(VMBGRTLSE(T		
TLP185(URGRTR,SE(T		
GB Rank	TLP185(GB,SE(O	
	TLP185(GB,SE(T	
	TLP185(GB-TPL,SE(O	
	TLP185(GB-TPL,SE(T	
	TLP185(GB-TPR,SE(T	
	TLP185(V4-GB,SE(T	
	TLP185(V4GBTL,SE(T	
	TLP185(V4GBTR,SE(T	
	TLP185(HOGBTL,SE(T	
	TLP185(PSEGBTLSE(T	
BL Rank	TLP185(BL,SE(T	
	TLP185(BL-TPL,SE(T	
	TLP185(BL-TPR,SE(T	
	TLP185(V4BLTL,SE(T	
	TLP185(GNNBLTRSE(T	
	TLP185(VMBBLTLSE(T	

TLP291(SE)

CTR Rank	Product Name
Y Rank	TLP291(V4-Y,SE(T
	TLP291(V4Y-TP,SE(T
	TLP291(V4Y-TR,SE(O
	TLP291(V4Y-TR,SE(T
	TLP291(Y,SE(T
	TLP291(Y-TP,SE(T
TLP291(Y-TPR,SE(T	
GR Rank	TLP291(GR,SE(T
	TLP291(GR-TP,SE(T
	TLP291(GR-TPR,SE(T
	TLP291(MBGRTP,SE(T
	TLP291(V4-GR,SE(T
	TLP291(V4GRTP,SE(T
TLP291(V4GRTR,SE(T	
GB Rank	TLP291(GB,SE(T
	TLP291(GB-TP,SE(O
	TLP291(GB-TP,SE(T
	TLP291(GB-TPR,SE(O
	TLP291(GB-TPR,SE(T
	TLP291(MBGBTP,SE(T
	TLP291(MBJGBTLSE(T
	TLP291(V4-GB,SE(T
	TLP291(V4GBTP,SE(O
	TLP291(V4GBTP,SE(T
TLP291(V4GBTR,SE(O	
TLP291(V4GBTR,SE(T	
TLP291(VMBGBTPSE(T	
BL Rank	TLP291(BL,SE(T
	TLP291(BL-TP,SE(T
	TLP291(BL-TPR,SE(T
	TLP291(MBBLTP,SE(T
	TLP291(V4-BL,SE(T
	TLP291(V4BLTP,SE(T
TLP291(V4BLTR,SE(T	
TLP291(VMBBLTPSE(T	

TLP385

CTR Rank	Product Name
Y Rank	TLP385(Y,E(T
	TLP385(Y-TPL,E(O
	TLP385(Y-TPL,E(T
	TLP385(Y-TPR,E(T
	TLP385(D4-Y,E(T
	TLP385(D4Y-TPL,E(T
TLP385(D4Y-TPR,E(T	
GR Rank	TLP385(GR,E(T
	TLP385(GR-TPL,E(T
	TLP385(GR-TPR,E(T
	TLP385(D4-GR,E(T
	TLP385(D4GR-TL,E(T
	TLP385(D4GR-TR,E(O
TLP385(D4GR-TR,E(T	
GB Rank	TLP385(D4MBSGR,E(T
	TLP385(GB,E(T
	TLP385(GB-TPL,E(T
	TLP385(GB-TPR,E(T
	TLP385(D4-GB,E(O
	TLP385(D4-GB,E(T
TLP385(D4GB-TL,E(O	
BL Rank	TLP385(D4GB-TL,E(T
	TLP385(D4GB-TR,E(O
	TLP385(D4GB-TR,E(T
	TLP385(BL,E(T
	TLP385(BL-TPL,E(T
	TLP385(BL-TPR,E(T
TLP385(D4-BL,E(T	
TLP385(D4BL-TL,E(T	
TLP385(D4BL-TR,E(T	

2. Applicable product list

TLP182

CTR Rank	Product Name
GB Rank	TLP182(GB,E(T
	TLP182(GB-TPL,E(T
	TLP182(GB-TPR,E(T
	TLP182(V4-GB,E(T
	TLP182(V4-GBTL,E(T
	TLP182(V4-GBTR,E(T

TLP383

CTR Rank	Product Name
GB Rank	TLP383(D4-GB,E(T
	TLP383(D4GB-TL,E(T
	TLP383(D4GB-TR,E(T
	TLP383(GB,E(T
	TLP383(GB-TPL,E(T
	TLP383(GB-TPR,E(T

TLP292-4

CTR Rank	Product Name
Standard Rank	TLP292-4(E(T
	TLP292-4(MB-TP,E(T
	TLP292-4(TP,E(T
	TLP292-4(TPR,E(T
	TLP292-4(V4,E(T
	TLP292-4(V4-TP,E(T
	TLP292-4(V4-TR,E(T
LA Rank	TLP292-4(LA,E(T
	TLP292-4(LA-TP,E(T
	TLP292-4(LA-TR,E(T
	TLP292-4(V4-LA,E(T
	TLP292-4(V4LATPE(T

TLP188

CTR Rank	Product Name
Standard Rank	TLP188(E(O
	TLP188(E(T
	TLP188(TPL,E(O
	TLP188(TPL,E(T
	TLP188(TPR,E(T

TLP292

CTR Rank	Product Name
GB Rank	TLP292(GB,E(T
	TLP292(GB-TPL,E(T
	TLP292(GB-TPR,E(T
	TLP292(V4-GB,E(T
	TLP292(V4-GBTL,E(T
	TLP292(V4-GBTR,E(T
	TLP292(NOMIGBTLE(T

TLP290-4

CTR Rank	Product Name
Standard Rank	TLP290-4(E(J
	TLP290-4(E(O
	TLP290-4(E(T
	TLP290-4(TP,E(J
	TLP290-4(TP,E(O
	TLP290-4(TP,E(T
	TLP290-4(V4,E(O
	TLP290-4(V4,E(T
	TLP290-4(V4-TP,E(O
	TLP290-4(V4-TP,E(T

TLP293-4

CTR Rank	Product Name
Standard Rank	TLP293-4(E(T
	TLP293-4(TP,E(T
	TLP293-4(TPR,E(T
	TLP293-4(V4,E(T
	TLP293-4(V4-TP,E(T
LA Rank	TLP293-4(V4-TR,E(T
	TLP293-4(LA,E(T
	TLP293-4(LA-TP,E(T
	TLP293-4(LA-TR,E(T
	TLP293-4(V4-LA,E(T
	TLP293-4(V4LATPE(T

TLP2301

CTR Rank	Product Name
Standard Rank	TLP2301(E(O
	TLP2301(E(T
	TLP2301(TPL,E(O
	TLP2301(TPL,E(T
	TLP2301(TPR,E(T
	TLP2301(V4,E(T
	TLP2301(V4-TPL,E(T
	TLP2301(V4-TPR,E(T
	TLP2301(HIT,E(T
	TLP2301(HIT-TL,E(T

TLP183

CTR Rank	Product Name
GB Rank	TLP183(GB,E(T
	TLP183(GB-TPL,E(T
	TLP183(GB-TPR,E(T
	TLP183(V4-GB,E(T
	TLP183(V4-GBTL,E(T
	TLP183(V4-GBTR,E(T

TLP291-4

CTR Rank	Product Name
Standard Rank	TLP291-4(E(J
	TLP291-4(E(O
	TLP291-4(E(T
	TLP291-4(TP,E(O
	TLP291-4(TP,E(T
	TLP291-4(V4,E(O
	TLP291-4(V4,E(T
	TLP291-4(V4-TP,E(O

TLP293

CTR Rank	Product Name
GB Rank	TLP293(GB,E(T
	TLP293(GB-TPL,E(T
	TLP293(GB-TPR,E(T
	TLP293(V4-GB,E(T
	TLP293(V4-GBTL,E(T
	TLP293(V4-GBTR,E(T

TLP2701

CTR Rank	Product Name
Standard Rank	TLP2701(E(T
	TLP2701(TPL,E(T
	TLP2701(TPR,E(T
	TLP2701(D4,E(T
	TLP2701(D4-TPL,E(T
	TLP2701(D4-TPR,E(T

TOSHIBA

Leading Innovation >>>