
SEMICONDUCTOR GENERAL CATALOG

半導体製品総覧表2019年1月版

General-Purpose Linear ICs

汎用リニアIC

Power Supply ICs / 電源用IC

Motor Drivers / モータドライバ

LED Drivers / LEDドライバ

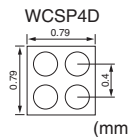
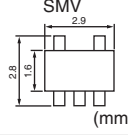
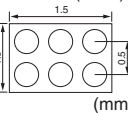
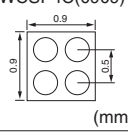
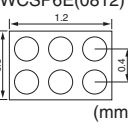
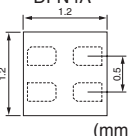
Intelligent Power Devices (IPDs) / インテリジェントパワーデバイス (IPD)

Operational Amplifier ICs (Op Amp ICs) & Comparator ICs / オペアンプ/ コンパレータ

Transistor Arrays / トランジスタアレイ

Power Supply ICs / 電源用IC

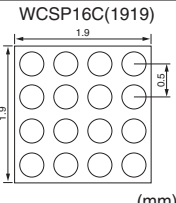
Load Switch ICs / ロードスイッチIC

Package (mm)	Part Number	Output Current (A)	Operating Voltage Range (V)	RON Max (Ta = -40 to 85°C)	Functions							
					Inrush Current Reduction (Slew Rate Adjustable)	Auto-discharge	Thermal Shutdown	Overcurrent Protection	Reverse Current Blocking	Control Pin Connection		
 WCSP4D (mm)	TCK106AG *	1.0	1.1 to 5.5	55 mΩ@VIN = 5.0 V, 0.5 A 105 mΩ@VIN = 1.8 V, 0.5 A 220 mΩ@VIN = 1.2 V, 0.2 A	Yes	/	/	/	/	Active High (pull-down)		
	TCK107AG *	1.0			Yes	Yes	/	/	/	Active High (pull-down)		
	TCK108AG *	1.0			Yes	Yes	/	/	/	Active Low (open)		
 SMV (mm)	TCK106AF *	1.0	1.1 to 5.5	90 mΩ@VIN = 5.5 V, 0.5 A 155 mΩ@VIN = 1.8 V, 0.5 A 270 mΩ@VIN = 1.2 V, 0.5 A	Yes	/	/	/	/	Active High (pull-down)		
	TCK107AF *	1.0			Yes	Yes	/	/	/	Active Low (open)		
	TCK108AF *	1.0			Yes	Yes	/	/	/	Active Low (open)		
 WCSP6C(1015) (mm)	TCK111G	3.0	1.1 to 5.5	15 mΩ@VIN = 1.1 V, 1.5 A	Yes	/	Yes	/	True Reverse Current Blocking	Active High (pull-down)		
	TCK112G *	3.0			Yes	Yes	Yes	/	True Reverse Current Blocking			
 WCSP4C(0909) (mm)	TCK206G	2.0	0.75 to 3.6	28 mΩ@VIN = 0.75 V, 1.5 A	Yes	/	/	/	Yes	Active High (pull-down)		
	TCK207G	2.0			Yes	Yes	/	/	Yes			
	TCK208G	2.0			Yes	Yes	/	/	Yes		Active Low (open)	
 WCSP6E(0812) (mm)	TCK22946G *	0.40	1.1 to 5.5	85 mΩ@VIN = 5.0 V, 150 mA 95 mΩ@VIN = 3.3 V, 150 mA 140 mΩ@VIN = 1.8 V, 150 mA	50 μs	Yes	Yes	400 mA	True Reverse Current Blocking	Active high (pull-down)		
	TCK22891G *	0.40			50 μs	Yes	Yes	400 mA	/		True Reverse Current Blocking	
	TCK2065G *	1.11	1.4 to 5.5		50 μs	Yes	Yes	1110 mA	/		True Reverse Current Blocking	
	TCK1024G *	1.54			50 μs	Yes	Yes	1540 mA	/		True Reverse Current Blocking	
	TCK22951G *	0.74			50 μs	Yes	Yes	740 mA	/		True Reverse Current Blocking	
	TCK22892G *	0.74			50 μs	Yes	Yes	740 mA	/		True Reverse Current Blocking	
	TCK22893G *	1.11			50 μs	Yes	Yes	1110 mA	/		True Reverse Current Blocking	
	TCK22894G *	1.54			50 μs	Yes	Yes	1540 mA	/		True Reverse Current Blocking	
	TCK22921G *	2.0			1.1 to 5.5	4.5 μs	Yes	/	/		Yes	True Reverse Current Blocking
	TCK22922G *	2.0				666 μs	Yes	/	/		Yes	True Reverse Current Blocking
	TCK22923G *	2.0	1364 μs			Yes	/	/	Yes	True Reverse Current Blocking		
	TCK22925G *	2.0	3380 μs			Yes	/	/	Yes	True Reverse Current Blocking		
	TCK22971G *	2.0	4.5 μs			/	/	/	Yes	True Reverse Current Blocking		
	TCK22972G *	2.0	666 μs			/	/	/	Yes	True Reverse Current Blocking		
	TCK22973G *	2.0	1.1 to 5.5		1364 μs	/	/	/	Yes	True Reverse Current Blocking		
	TCK22974G *	2.0			3380 μs	/	/	/	Yes	True Reverse Current Blocking		
	TCK22975G *	2.0			666 μs	/	/	/	Yes	True Reverse Current Blocking		
	TCK22910G *	2.0			1400 μs	/	Yes	/	/	True Reverse Current Blocking		
	TCK22911G *	2.0	1.1 to 5.5		1400 μs	Yes	Yes	/	/	True Reverse Current Blocking		
	TCK22912G *	2.0			1400 μs	/	Yes	/	/	True Reverse Current Blocking		
TCK22913G *	2.0	1400 μs		Yes	Yes	/	/	True Reverse Current Blocking				
 DFN4A (mm)	TCK207AN **	2.0	0.75 to 3.6	37.3 mΩ@VIN = 0.75 V, 1.5 A	Yes	Yes	/	/	Yes	Active high (pull-down)		

*: New product / 新製品

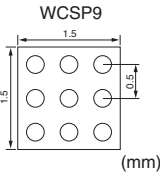
** : Under development / 開発中

Power Multiplexer ICs / パワーマルチプレクサ IC
(Switch Type: Dual Input-Single Output)

Package (mm)	Part Number	Output Current (A)	Operating Voltage Range (V)	R _{ON} Max (Ta = -40°C to 85°C)	Over Voltage Lockout (typ.)(V)	Under Voltage Lockout (typ.)(V)	Thermal Shutdown	Reverse Current Blocking	Auto power Source Select Mode	FLAG Indicates
 WCSP16C(1919) (mm)	TCK321G *	2.0	2.3 to 36	170 mΩ@V _{IN} = 4.5 V, 1 A	12	2.9	Yes	Yes	Yes	VINA Monitored
	TCK322G *	2.0			15	2.9	Yes	Yes	Yes	VINA Monitored
	TCK323G *	2.0			15	2.9	Yes	Yes	Yes	VINB Monitored

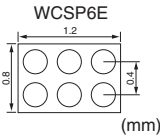
*: New product / 新製品

(Switch Type: Single Input-Single Output)

Package (mm)	Part Number	Output Current (A)	Operating Voltage Range (V)	R _{ON} Max (Ta = -40°C to 85°C)	Over Voltage Lockout (typ.)(V)	Under Voltage Lockout (typ.)(V)	Thermal Shutdown	Reverse Current Blocking	Switch	Chip Enable
 WCSP9 (mm)	TCK301G *	3.0	2.3 to 28	140 mΩ@V _{IN} = 4.5 V, 1 A	6.6	2.9	Yes	Yes	Active High (pull-up)	Active Low (pull-down)
	TCK302G *	3.0			10.5	2.9	Yes	Yes	Active High (pull-up)	Active Low (pull-down)
	TCK303G *	3.0			15.5	2.9	Yes	Yes	Active High (pull-up)	Active Low (pull-down)
	TCK304G *	3.0			6.6	2.9	Yes	Yes	Active Low (pull-down)	Active High (pull-down)
	TCK305G *	3.0			10.5	2.9	Yes	Yes	Active Low (pull-down)	Active Low (pull-down)

*: New product / 新製品

FET Driver ICs / FET ドライバー IC

Package (mm)	Part Number	Operating Voltage Range (V)	Input Quiescent Current (ON state) (μA)	GATE Drive Voltage (V) typ.				Overvoltage Protection	Inrush Current Reduction	Auto-discharge	Chip Enable
				@ V _{IN} = 3 V	@ V _{IN} = 5 V	@ V _{IN} = 9 V	@ 12 V ≤ V _{IN} ≤ 28 V				
 WCSP6E (mm)	TCK401G *	2.7 to 28	121	4	6.5	6.5	8.5	Yes	Yes	Yes	Active High (pull-down)
	TCK402G *							Yes	Yes	Yes	Active Low (pull-down)

*: New product / 新製品

Small Surface-Mount Low Dropout (LDO) Regulators / 小型面実装ロードロップアウト (LDO) レギュレータ

Low Dropout (LDO) Regulators are so small they can be locally assigned to individual circuit blocks, making them suitable for applications requiring low dropout.

These devices incorporate an ON/OFF control function, which facilitates power management.

回路ブロックに分散配置ができるロードロップアウトレギュレータICです。
ON/OFFスイッチ機能が付いていますので、パワーマネージメントが可能です。

< Features >

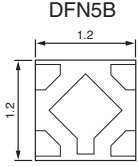
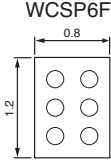
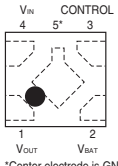
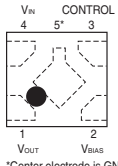
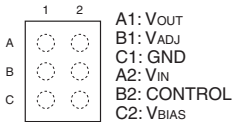
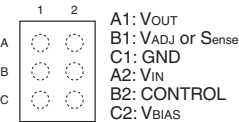
- ・ Small package
- ・ Low noise
- ・ Low-dropout voltage
- ・ Fast load transient response
- ・ Overcurrent protection
- ・ Low current consumption (CMOS Type)
- ・ High ripple rejection
- ・ Capable of using a ceramic capacitor
- ・ Low saturation voltage
- ・ ON/OFF control
- ・ Overtemperature protection
- ・ Auto-discharge
- ・ CE pin with a pull-down resistor

< 特長、付加機能 >

- ・ 小型パッケージ
- ・ 低ノイズ
- ・ 低ドロップアウト電圧
- ・ 高速負荷過渡応答
- ・ 過電流保護機能
- ・ 低消費電流 (CMOSタイプ)
- ・ 高リップルリジェクション
- ・ セラミックコンデンサ使用可能
- ・ 低飽和電圧
- ・ ON/OFFコントロール機能
- ・ 過熱保護機能
- ・ オートディスチャージ機能
- ・ コントロール端子プルダウン接続

(Single Output CMOS Type) / (CMOS, シングル出力)

□I_{OUT} (Max) = 500 mA, 800 mA, 1.3 A, 1.5 A

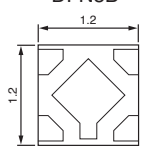
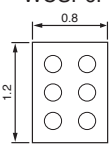
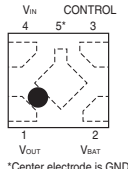
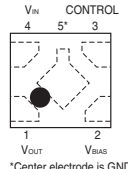
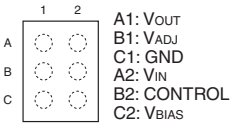
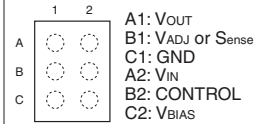
Package	Part Number					
	DFN5B  (mm)			WCSP6F  (mm)		
Absolute Maximum Rating Input Voltage V _{IN} (Max)	6.0 V			6.0 V	6.0 V	
Output Current I _{OUT} (Max)	500 mA		800 mA	1.3 A	1.5 A	
Quiescent current I _B (Typ.)	38 μA	19 μA	20 μA	56 μA	25 μA	
Dropout voltage V _{IN} -V _{OUT} (Typ.)	90 mV @I _{OUT} = 300 mA, V _{BAT} = 3.3 V	100 mV @I _{OUT} = 500 mA, V _{BIAS} = 3.3 V	170 mV @I _{OUT} = 800 mA, V _{BIAS} = 3.3 V	92 mV @I _{OUT} = 1.0 A, V _{BIAS} = 3.3 V	120 mV @I _{OUT} = 1.5 A, V _{BIAS} = 3.3 V	
Ripple rejection ratio PSRR (Typ.)	70 dB	98 dB	98 dB	90 dB	95 dB	
Auto-discharge	Yes	Yes	Yes	Yes	Yes	
Output Voltage V _{OUT} (V) (Typ.)	Adjustable output voltage	—	—	TCR13AGADJ * (0.55 V to 3.6 V)	TCR15AGADJ * (0.60 V to 3.6 V)	
	0.55	TCR5AM055	—	—	—	
	0.6	TCR5AM06	—	—	—	
	0.65	TCR5AM065	—	—	TCR15AG065 *	
	0.7	TCR5AM07	—	—	TCR15AG07 *	
	0.75	TCR5AM075	—	—	TCR15AG075 *	
	0.8	TCR5AM08	TCR5BM08A *	TCR8BM08A *	—	TCR15AG08 *
	0.85	TCR5AM085	TCR5BM085A *	TCR8BM085A *	—	TCR15AG085 *
	0.9	TCR5AM09	TCR5BM09A *	TCR8BM09A *	—	TCR15AG09 *
	0.95	TCR5AM095	TCR5BM095A *	TCR8BM095A *	—	TCR15AG095 *
	1	TCR5AM10A	TCR5BM10A *	TCR8BM10A *	—	TCR15AG10 *
	1.05	TCR5AM105A	TCR5BM105A *	TCR8BM105A *	—	TCR15AG105 *
	1.1	TCR5AM11A	TCR5BM11A *	TCR8BM11A *	—	TCR15AG11 *
	1.15	TCR5AM115	TCR5BM115A *	TCR8BM115A *	—	TCR15AG115 *
	1.2	TCR5AM12A	TCR5BM12A *	TCR8BM12A *	—	TCR15AG12 *
	1.25	TCR5AM125	TCR5BM125A *	TCR8BM125A *	—	TCR15AG125 *
	1.3	TCR5AM13	TCR5BM13A *	TCR8BM13A *	—	TCR15AG13 *
1.35	—	—	—	—	TCR15AG135 *	
1.4	TCR5AM14	TCR5BM14A *	TCR8BM14A *	—	TCR15AG14 *	
1.5	TCR5AM15	TCR5BM15A *	TCR8BM15A *	—	TCR15AG15 *	
1.6	TCR5AM16	TCR5BM16A *	TCR8BM16A *	—	TCR15AG16 *	
Pin Assignment (Top View)						
	*Center electrode is GND		*Center electrode is GND			

・ Please ask your local retailer about the devices with other output voltages.

・ その他の電圧ランクは営業窓口にご相談ください。

*: New product / 新製品

□ I_{OUT} (Max) = 500 mA, 800 mA, 1.3 A, 1.5 A

Package		Part Number				
		DFN5B  (mm)		WCSP6F  (mm)		
Absolute Maximum Rating Input Voltage V _{IN} (Max)		6.0 V		6.0 V	6.0 V	
Output Current I _{OUT} (Max)		500 mA		800 mA	1.3 A	1.5 A
Quiescent current I _B (Typ.)		38 μA	19 μA	20 μA	56 μA	25 μA
Dropout voltage V _{IN} -V _{OUT} (Typ.)		90 mV @ I _{OUT} = 300 mA, V _{BAT} = 3.3 V	100 mV @ I _{OUT} = 500 mA, V _{BIAS} = 3.3 V	170 mV @ I _{OUT} = 800 mA, V _{BIAS} = 3.3 V	92 mV @ I _{OUT} = 1.0 A, V _{BIAS} = 3.3 V	120 mV @ I _{OUT} = 1.5 A, V _{BIAS} = 3.3 V
Ripple rejection ratio PSRR (Typ.)		70 dB	98 dB	98 dB	90 dB	95 dB
Auto-discharge		Yes	Yes	Yes	Yes	Yes
Output Voltage V _{OUT} (V) (Typ.)	Adjustable output voltage	—	—	—	TCR13AGADJ * (0.55 V to 3.6 V)	TCR15AGADJ * (0.60 V to 3.6 V)
	1.7	TCR5AM17	TCR5BM17A *	TCR8BM17A *	—	TCR15AG17 *
	1.75	TCR5AM175	—	—	—	TCR15AG175 *
	1.8	TCR5AM18A	TCR5BM18A *	TCR8BM18A *	—	TCR15AG18 *
	1.85	—	—	—	—	TCR15AG185 *
	1.9	TCR5AM19	TCR5BM19A *	TCR8BM19A *	—	TCR15AG19 *
	2	TCR5AM20	TCR5BM20A *	TCR8BM20A *	—	TCR15AG20 *
	2.1	TCR5AM21	TCR5BM21A *	TCR8BM21A *	—	TCR15AG21 *
	2.2	TCR5AM22	TCR5BM22A *	TCR8BM22A *	—	TCR15AG22 *
	2.3	TCR5AM23	TCR5BM23A *	TCR8BM23A *	—	TCR15AG23 *
	2.4	TCR5AM24	TCR5BM24A *	TCR8BM24A *	—	TCR15AG24 *
	2.5	TCR5AM25	TCR5BM25A *	TCR8BM25A *	—	TCR15AG25 *
	2.6	TCR5AM26	TCR5BM26A *	TCR8BM26A *	—	TCR15AG26 *
	2.7	TCR5AM27	TCR5BM27A *	TCR8BM27A *	—	TCR15AG27 *
	2.75	—	—	—	—	TCR15AG275 *
	2.8	TCR5AM28	TCR5BM28A *	TCR8BM28A *	—	TCR15AG28 *
	2.85	TCR5AM285	TCR5BM285A *	TCR8BM285A *	—	TCR15AG285 *
	2.9	TCR5AM29	TCR5BM29A *	TCR8BM29A *	—	TCR15AG29 *
	2.95	TCR5AM295	TCR5BM295A *	TCR8BM295A *	—	TCR15AG295 *
	3	TCR5AM30	TCR5BM30A *	TCR8BM30A *	—	TCR15AG30 *
3.05	—	—	—	—	TCR15AG305 *	
3.1	TCR5AM31	TCR5BM31A *	TCR8BM31A *	—	TCR15AG31 *	
3.2	TCR5AM32	TCR5BM32A *	TCR8BM32A *	—	TCR15AG32 *	
3.25	—	—	—	—	TCR15AG325 *	
3.3	TCR5AM33	TCR5BM33A *	TCR8BM33A *	—	TCR15AG33 *	
3.35	—	—	—	—	TCR15AG335 *	
3.4	TCR5AM34	TCR5BM34A *	TCR8BM34A *	—	TCR15AG34 *	
3.5	TCR5AM35	TCR5BM35A *	TCR8BM35A *	—	TCR15AG35 *	
3.6	TCR5AM36	TCR5BM36A *	TCR8BM36A *	—	TCR15AG36 *	
Pin Assignment (Top View)						

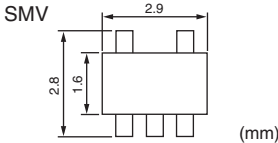
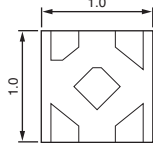
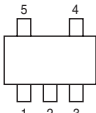
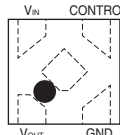
• Please ask your local retailer about the devices with other output voltages.

*: New product / 新製品

• その他の電圧ランクは営業窓口にご相談ください。

Small Surface-Mount Low Dropout (LDO) Regulators / 小型面実装ロードレギュレータ (Single Output CMOS Type) / (CMOS, シングル出力)

□I_{OUT} (Max) = 300 mA, 420 mA

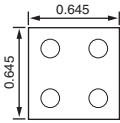
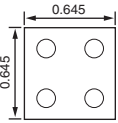
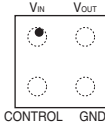
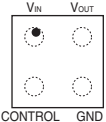
Package	Part Number			
	SMV  (mm)	DFN4  (mm)		
Absolute Maximum Rating Input Voltage V _{IN} (Max)	6.0 V			
Output Current I _{OUT} (Max)	300 mA			
Quiescent current I _B (Typ.)	38 μA	65 μA	0.34 μA	
Ripple rejection ratio PSRR (Typ.)	70 dB	70 dB	70 dB	
Dropout voltage V _{IN} -V _{OUT} (Typ.)	90 mV @I _{OUT} = 300 mA	210 mV @I _{OUT} = 300 mA	160 mV @I _{OUT} = 300 mA	
Auto-discharge	Yes			
Output Voltage V _{OUT} (V) (Typ.)	0.8	—	—	TCR3UM08A *
	0.85	—	—	TCR3UM085A *
	0.9	—	—	TCR3UM09A *
	0.95	—	—	TCR3UM095A *
	1.0	TCR3DF10	TCR3DM10	TCR3UM10A *
	1.05	TCR3DF105	TCR3DM105	TCR3UM105A *
	1.1	TCR3DF11	TCR3DM11	TCR3UM11A *
	1.15	—	—	TCR3UM115A *
	1.2	TCR3DF12	TCR3DM12	TCR3UM12A *
	1.25	TCR3DF125	—	—
	1.3	TCR3DF13	TCR3DM13	TCR3UM13A *
	1.35	—	TCR3DM135	TCR3UM135A *
	1.4	—	—	TCR3UM14A *
	1.5	TCR3DF15	TCR3DM15	TCR3UM15A *
	1.6	—	—	TCR3UM16A *
	1.7	TCR3DF17	—	—
	1.75	—	—	TCR3UM175A *
	1.8	TCR3DF18	TCR3DM18	TCR3UM18A *
	1.825	—	—	TCR3UM1825A *
	1.85	TCR3DF185	—	TCR3UM185A *
	1.9	TCR3DF19	—	TCR3UM19A *
	2.3	—	—	—
	2.4	TCR3DF24	—	—
	2.45	—	—	—
	2.5	TCR3DF25	TCR3DM25	TCR3UM25A *
	2.6	—	—	TCR3UM26A *
	2.7	TCR3DF27	—	TCR3UM27A *
	2.75	TCR3DF275	—	—
	2.8	TCR3DF28	TCR3DM28	TCR3UM28A *
	2.85	TCR3DF285	TCR3DM285	TCR3UM285A *
	2.9	TCR3DF29	—	TCR3UM29A *
	2.925	—	—	TCR3UM2925A *
	2.95	TCR3DF295	—	—
3.0	TCR3DF30	TCR3DM30	TCR3UM30A *	
3.1	TCR3DF31	—	TCR3UM31A *	
3.2	TCR3DF32	TCR3DM32	TCR3UM32A *	
3.25	—	—	—	
3.3	TCR3DF33	TCR3DM33	TCR3UM33A *	
3.35	TCR3DF335	—	—	
3.5	—	TCR3DM35	TCR3UM35A *	
3.6	TCR3DF36	TCR3DM36	TCR3UM36A *	
3.9	TCR3DF39	—	—	
4.0	TCR3DF40	—	—	
4.1	—	—	TCR3UM41A *	
4.2	—	—	TCR3UM42A *	
4.5	TCR3DF45	TCR3DM45	TCR3UM45A *	
5.0	—	—	TCR3UM50A *	
Pin Assignment (Top View)	 <p>1: V_{IN} 2: GND 3: CONTROL 4: NC 5: V_{OUT}</p>			

・ Please ask your local retailer about the devices with other output voltages.

*: New product / 新製品

・ その他の電圧ランクは営業窓口にご相談ください。

□ I_{OUT} (Max) = 300 mA, 420 mA

Package		Part Number			
		WCSP4E		WCSP4F	
		 (mm)		 (mm)	
Absolute Maximum Rating Input Voltage V _{IN} (Max)		6.0 V		6.0 V	
Output Current I _{OUT} (Max)		300 mA	420 mA	300 mA	
Quiescent current I _B (Typ.)		65 μA	65 μA	0.34 μA	
Ripple rejection ratio PSRR (Typ.)		70 dB	70 dB	70 dB	
Dropout voltage V _{IN} -V _{OUT} (Typ.)		195 mV @I _{OUT} = 300 mA	193 mV @I _{OUT} = 420 mA	140 mV @I _{OUT} = 300 mA	
Auto-discharge		Yes		Yes	No
Output Voltage V _{OUT} (V) (Typ.)	0.8	—	—	TCR3UG08A *	TCR3UG08B *
	0.85	—	—	TCR3UG085A *	TCR3UG085B *
	0.9	—	—	TCR3UG09A *	TCR3UG09B *
	0.95	—	—	TCR3UG095A *	TCR3UG095B *
	1.0	TCR3DG10	TCR4DG10 *	TCR3UG10A *	TCR3UG10B *
	1.05	—	TCR4DG105 *	TCR3UG105A *	TCR3UG105B *
	1.1	TCR3DG11	TCR4DG11 *	TCR3UG11A *	TCR3UG11B *
	1.15	—	—	TCR3UG115A *	TCR3UG115B *
	1.2	TCR3DG12	TCR4DG12 *	TCR3UG12A *	TCR3UG12B *
	1.25	—	TCR4DG125 *	—	—
	1.3	TCR3DG13	TCR4DG13 *	TCR3UG13A *	TCR3UG13B *
	1.35	TCR3DG135	TCR4DG135 *	TCR3UG135A *	TCR3UG135B *
	1.4	—	—	—	—
	1.5	—	TCR4DG15 *	TCR3UG15A *	TCR3UG15B *
	1.6	—	—	—	—
	1.7	—	—	—	—
	1.75	—	TCR4DG175 *	TCR3UG175A *	TCR3UG175B *
	1.8	TCR3DG18	TCR4DG18 *	TCR3UG18A *	TCR3UG18B *
	1.825	—	—	—	—
	1.85	—	TCR4DG185 *	TCR3UG185A *	TCR3UG185B *
	1.9	—	TCR4DG19 *	TCR3UG19A *	TCR3UG19B *
	2.3	—	TCR4DG23 *	—	—
	2.4	—	—	—	—
	2.45	—	TCR4DG245 *	—	—
	2.5	TCR3DG25	TCR4DG25 *	TCR3UG25A *	TCR3UG25B *
	2.6	—	—	TCR3UG26A *	TCR3UG26B *
	2.7	—	TCR4DG27 *	TCR3UG27A *	TCR3UG27B *
	2.75	—	TCR4DG275 *	—	—
	2.8	TCR3DG28	TCR4DG28 *	TCR3UG28A *	TCR3UG28B *
	2.85	TCR3DG285	TCR4DG285 *	TCR3UG285A *	TCR3UG285B *
2.9	—	TCR4DG29 *	—	—	
2.925	—	—	—	—	
2.95	—	—	—	—	
3.0	TCR3DG30	TCR4DG30 *	TCR3UG30A *	TCR3UG30B *	
3.1	TCR3DG31	TCR4DG31 *	TCR3UG31A *	TCR3UG31B *	
3.2	TCR3DG32	TCR4DG32 *	TCR3UG32A *	TCR3UG32B *	
3.25	—	TCR4DG325 *	—	—	
3.3	TCR3DG33	TCR4DG33 *	TCR3UG33A *	TCR3UG33B *	
3.35	—	—	—	—	
3.5	TCR3DG35	TCR4DG35 *	TCR3UG35A *	TCR3UG35B *	
3.6	TCR3DG36	TCR4DG36 *	TCR3UG36A *	TCR3UG36B *	
3.9	—	—	—	—	
4.0	—	—	—	—	
4.1	—	—	TCR3UG41A *	TCR3UG41B *	
4.2	—	TCR4DG42 *	TCR3UG42A *	TCR3UG42B *	
4.5	TCR3DG45	TCR4DG45 *	TCR3UG45A *	TCR3UG45B *	
5.0	—	—	TCR3UG50A *	TCR3UG50B *	
Pin Assignment (Top View)					

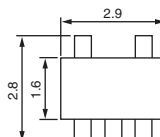
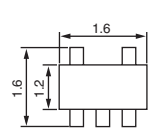
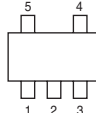
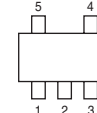
· Please ask your local retailer about the devices with other output voltages.

*: New product / 新製品

· その他の電圧ランクは営業窓口にご相談ください。

Small Surface-Mount Low Dropout (LDO) Regulators / 小型面実装ロードレギュレータ (Single Output CMOS Type) / (CMOS, シングル出力)

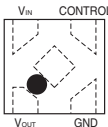
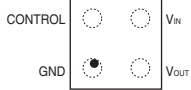
□I_{OUT} (Max) = 200 mA

Package	Part Number				
	SMV		ESV		
	 (mm)		 (mm)		
Absolute Maximum Rating Input Voltage V _{IN} (Max)	6.0 V	6.0 V	6.0 V	6.0 V	
Output Current I _{OUT} (Max)	200 mA	200 mA	200 mA	200 mA	
Quiescent current I _B (Typ.)	35 μA	1.0 μA	35 μA	1.0 μA	
Dropout voltage V _{IN} -V _{OUT} (Typ.)	180 mV @I _{OUT} = 150 mA	220 mV @I _{OUT} = 150 mA	180 mV @I _{OUT} = 150 mA	220 mV @I _{OUT} = 150 mA	
Ripple rejection ratio PSRR (Typ.)	73 dB	—	73 dB	—	
Auto-discharge	Yes		Yes		
Output Voltage V _{OUT} (V) (Typ.)	0.8	—	TCR2LF08	—	TCR2LE08
	0.85	—	TCR2LF085	—	TCR2LE085
	0.9	—	TCR2LF09	—	TCR2LE09
	0.95	—	TCR2LF095	—	TCR2LE095
	1.0	TCR2EF10	TCR2LF10	TCR2EE10	TCR2LE10
	1.05	TCR2EF105	TCR2LF105	TCR2EE105	TCR2LE105
	1.1	TCR2EF11	TCR2LF11	TCR2EE11	TCR2LE11
	1.15	TCR2EF115	TCR2LF115	TCR2EE115	TCR2LE115
	1.2	TCR2EF12	TCR2LF12	TCR2EE12	TCR2LE12
	1.25	TCR2EF125	—	TCR2EE125	—
	1.3	TCR2EF13	TCR2LF13	TCR2EE13	TCR2LE13
	1.35	TCR2EF135	—	TCR2EE135	—
	1.4	TCR2EF14	—	TCR2EE14	—
	1.45	—	—	TCR2EE145	—
	1.5	TCR2EF15	TCR2LF15	TCR2EE15	TCR2LE15
	1.6	—	—	—	—
	1.7	—	—	TCR2EE17	—
	1.8	TCR2EF18	TCR2LF18	TCR2EE18	TCR2LE18
	1.85	—	—	TCR2EE185	—
	1.9	TCR2EF19	TCR2LF19	TCR2EE19	TCR2LE19
	2.0	TCR2EF20	TCR2LF20	TCR2EE20	TCR2LE20
	2.1	—	TCR2LF21	—	TCR2LE21
	2.2	—	—	—	—
	2.3	—	—	—	—
	2.4	—	—	TCR2EE24	—
	2.5	TCR2EF25	TCR2LF25	TCR2EE25	TCR2LE25
	2.6	—	—	—	—
	2.7	TCR2EF27	TCR2LF27	TCR2EE27	TCR2LE27
	2.75	—	—	TCR2EE275	—
	2.8	TCR2EF28	TCR2LF28	TCR2EE28	TCR2LE28
	2.85	TCR2EF285	TCR2LF285	TCR2EE285	TCR2LE285
2.9	TCR2EF29	—	TCR2EE29	—	
2.95	—	—	TCR2EE295	—	
3.0	TCR2EF30	TCR2LF30	TCR2EE30	TCR2LE30	
3.05	—	—	TCR2EE305	—	
3.1	TCR2EF31	TCR2LF31	TCR2EE31	TCR2LE31	
3.2	TCR2EF32	TCR2LF32	TCR2EE32	TCR2LE32	
3.3	TCR2EF33	TCR2LF33	TCR2EE33	TCR2LE33	
3.35	—	—	TCR2EE335	—	
3.4	—	—	TCR2EE34	—	
3.5	—	—	TCR2EE35	—	
3.6	TCR2EF36	TCR2LF36	TCR2EE36	TCR2LE36	
3.9	—	—	TCR2EE39	—	
4.0	TCR2EF40	—	TCR2EE40	—	
4.1	TCR2EF41	—	TCR2EE41	—	
4.2	—	—	TCR2EE42	—	
4.5	TCR2EF45	—	TCR2EE45	—	
4.8	—	—	TCR2EE48	—	
5.0	TCR2EF50	—	TCR2EE50	—	
Pin Assignment (Top View)	 1: V _{IN} 2: GND 3: CONTROL 4: NC 5: V _{OUT}		 1: CONTROL 2: GND 3: V _{IN} 4: V _{OUT} 5: NC		

・ Please ask your local retailer about the devices with other output voltages.

・ その他の電圧ランクは営業窓口にご相談ください。

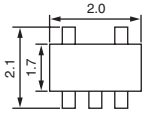
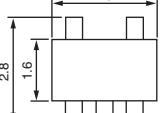
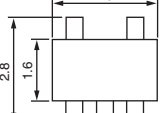
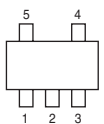
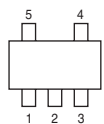
□ I_{OUT} (Max) = 200 mA

Package	Part Number		
	SDFN4	(mm)	WCSP4
Absolute Maximum Rating Input Voltage V _{IN} (Max)	6.0 V	6.0 V	6.0 V
Output Current I _{OUT} (Max)	200 mA	200 mA	200 mA
Quiescent current I _B (Typ.)	35 μA	1.0 μA	45 μA
Dropout voltage V _{IN} -V _{OUT} (Typ.)	160 mV @ I _{OUT} = 150 mA	200 mV @ I _{OUT} = 150 mA	75 mV @ I _{OUT} = 100 mA
Ripple rejection ratio PSRR (Typ.)	73 dB	—	85 dB
Auto-discharge	Yes		No
Output Voltage V _{OUT} (V) (Typ.)	0.8	—	TCR2LN08
	0.85	—	TCR2LN085
	0.9	—	TCR2LN09
	0.95	—	TCR2LN095
	1.0	TCR2EN10	TCR2LN10
	1.05	TCR2EN105	TCR2LN105
	1.1	TCR2EN11	TCR2LN11
	1.15	TCR2EN115	TCR2LN115
	1.2	TCR2EN12	TCR2LN12
	1.25	TCR2EN125	—
	1.3	TCR2EN13	TCR2LN13
	1.35	—	—
	1.4	—	—
	1.45	—	—
	1.5	TCR2EN15	TCR2LN15
	1.6	—	—
	1.7	—	—
	1.8	TCR2EN18	TCR2LN18
	1.85	—	—
	1.9	TCR2EN19	TCR2LN19
	2.0	—	—
	2.1	TCR2EN21	TCR2LN21
	2.2	—	—
	2.3	—	—
	2.4	—	—
	2.5	TCR2EN25	TCR2LN25
	2.6	—	—
	2.7	TCR2EN27	TCR2LN27
	2.75	—	—
	2.8	TCR2EN28	TCR2LN28
	2.85	TCR2EN285	TCR2LN285
	2.9	TCR2EN29	—
	2.95	—	—
	3.0	TCR2EN30	TCR2LN30
	3.05	—	—
	3.1	TCR2EN31	TCR2LN31
3.2	TCR2EN32	TCR2LN32	
3.3	TCR2EN33	TCR2LN33	
3.35	—	—	
3.4	TCR2EN34	—	
3.5	TCR2EN35	—	
3.6	TCR2EN36	TCR2LN36	
3.9	—	—	
4.0	—	—	
4.1	—	—	
4.2	—	—	
4.5	—	—	
4.8	—	—	
5.0	—	—	
Pin Assignment (Top View)			

- Please ask your local retailer about the devices with other output voltages.
- その他の電圧ランクは営業窓口にご相談ください。

Small Surface-Mount Low Dropout (LDO) Regulators / 小型面実装ロードレギュレータ (Single Output Bipolar Type) / (バイポーラ, シングル出力)

□I_{OUT} (Max) = 200 mA

Package	Part Number			
	UFV  (mm)	SMV  (mm)	SMV  (mm)	
Absolute Maximum Rating Input Voltage V _{IN} (Max)	15 V	15 V	15 V	
Output Current I _{OUT} (Max)	200 mA	200 mA	200 mA	
Quiescent current I _B (Typ.)	170 μA	170 μA	170 μA	
Ripple rejection ratio PSRR (Typ.)	70 dB	70 dB	70 dB	
Dropout voltage V _{IN} -V _{OUT} (Typ.)	130 mV@I _{OUT} = 50 mA	130 mV@I _{OUT} = 50 mA	130 mV@I _{OUT} = 50 mA	
Output Voltage V _{OUT} (V) (Typ.)	1.5	TAR5S15U	TAR5S15	TAR5SB15
	1.6	TAR5S16U	TAR5S16	TAR5SB16
	1.7	TAR5S17U	TAR5S17	TAR5SB17
	1.8	TAR5S18U	TAR5S18	TAR5SB18
	1.9	TAR5S19U	TAR5S19	TAR5SB19
	2.0	TAR5S20U	TAR5S20	TAR5SB20
	2.1	TAR5S21U	TAR5S21	TAR5SB21
	2.2	TAR5S22U	TAR5S22	TAR5SB22
	2.3	TAR5S23U	TAR5S23	TAR5SB23
	2.4	TAR5S24U	TAR5S24	TAR5SB24
	2.5	TAR5S25U	TAR5S25	TAR5SB25
	2.6	TAR5S26U	TAR5S26	TAR5SB26
	2.7	TAR5S27U	TAR5S27	TAR5SB27
	2.8	TAR5S28U	TAR5S28	TAR5SB28
	2.9	TAR5S29U	TAR5S29	TAR5SB29
	3.0	TAR5S30U	TAR5S30	TAR5SB30
	3.1	TAR5S31U	TAR5S31	TAR5SB31
	3.2	TAR5S32U	TAR5S32	TAR5SB32
	3.3	TAR5S33U	TAR5S33	TAR5SB33
	3.4	TAR5S34U	TAR5S34	TAR5SB34
	3.5	TAR5S35U	TAR5S35	TAR5SB35
	3.6	TAR5S36U	TAR5S36	TAR5SB36
	3.7	TAR5S37U	TAR5S37	TAR5SB37
	3.8	TAR5S38U	TAR5S38	TAR5SB38
	3.9	TAR5S39U	TAR5S39	TAR5SB39
	4.0	TAR5S40U	TAR5S40	TAR5SB40
4.1	TAR5S41U	TAR5S41	TAR5SB41	
4.2	TAR5S42U	TAR5S42	TAR5SB42	
4.3	TAR5S43U	TAR5S43	TAR5SB43	
4.4	TAR5S44U	TAR5S44	TAR5SB44	
4.5	TAR5S45U	TAR5S45	TAR5SB45	
4.6	TAR5S46U	TAR5S46	TAR5SB46	
4.7	TAR5S47U	TAR5S47	TAR5SB47	
4.8	TAR5S48U	TAR5S48	TAR5SB48	
4.9	TAR5S49U	TAR5S49	TAR5SB49	
5.0	TAR5S50U	TAR5S50	TAR5SB50	
Pin Assignment (Top View)				
	1: CONTROL 2: GND 3: NOISE 4: V _{OUT} 5: V _{IN}		1: V _{IN} 2: GND 3: CONTROL 4: NOISE 5: V _{OUT}	

・ Please ask your local retailer about the devices with other output voltages.

・ その他の電圧ランクは営業窓口にご相談ください。

DC-DC Converters / DC-DCコンバータ用IC

(System Power Supplies, Multi-Channel) / (システム電源, 多チャンネル)

Part Number	Input Supply Voltage (V)	Switching Frequency Typ. (kHz)	Package	Application	Features
TC7734FTG	3.4 to 5.5	1,000	QFN64	Tablet	Step-Down: 4ch, LDO: 3ch, LED driver: 2ch, 1.5 A battery charger function, USB adaptor detection, I ² C interface, Varied error detections and protections, programmable power sequence
TC7738WBG	2.9 to 5.5	3000	WCSP45	SSD	Step-Down: 6ch, LDO: 2ch, LOAD-SW, BYPASS-SW, I ² C interface, Varied error detections and protections, programmable power sequence
TC7739FTG	4.5 to 5.5	2000	QFN32	Amusement	Step-Down: 2ch, LDO: 4ch, LOAD-SW, I ² C interface, Varied error detections and protections, programmable power sequence

(Charge Controller ICs) / (充電制御IC)

Part Number	Input Supply Voltage (V)	Input Current (A)	Output Voltage (V)	Output Current (A)	Switching Frequency Typ. (kHz)	Package	Features
TC7710AWBG	4.3 to 6.5	2 (max)	3.46 to 4.72	2 (max)	3000	WCSP25	Compliant with Battery Charging Spec rev1.2, OTG (On-the-Go) voltage output, temperature detection, 1-cell charging

Motor Drivers / モータドライバ

Brushed DC Motor Driver ICs / ブラシ付きモータドライバ

Part Number	Large Mode	Maximum Ratings		Output Ron	Circuits (Ch)	C.C. PWM	Single Power Supply	Protection			Temp. Range Ta	Package
		Voltage (V)	Current (A)					UVLO (1)	ISD (2)	TSD (3)		
TB62212FTAG/FNG ☆	●	40	2.0 / 4.0 (4)	2.20 / 1.10 (4)	4/2 (4)	●	●	●	○	○	-40 to +85°C	QFN48/HTSSOP48
TB62216FTG/FNG/FG ☆		40	2.5	1.00	2	●	●	●	○	○	-20 to +85°C	QFN48/HTSSOP48/HSOP28
TB6549FG/PG ▲		30	3.5	1.00	1		●		◇	◇	-20 to +85°C	HSOP20/DIP16
TB6549HQ ▲		30	4.5	1.00	1		●		◇	◇	-20 to +85°C	HZIP25
TB6552FTG/FNG ☆		15	1.0	1.50	2					◇	-20 to +85°C	QFN16/SSOP16
TB6559FG		50	2.5	1.30	1	●	●		◇	◇	-30 to +85°C	HSOP16
TB6561NG/FG		40	1.5	1.50	2		●		◇	◇	-20 to +85°C	SDIP24/SSOP30
TB6568KQ		50	3.0	0.55	1		●	●	○	○	-40 to +85°C	HSIP7
TB6569FG		50	4.5	0.55	1	●	●	●	○	○	-40 to +85°C	HSOP16
TB6569FTG ☆		50	4.5	0.55	1	●	●	●	○	○	-40 to +85°C	QFN32
TB6593FNG ▲ ☆		15	3.2	0.35	1			●		◇	-20 to +85°C	SSOP20
TB6612FNG ☆		15	3.2	0.50	2			●		◇	-20 to +85°C	SSOP24
TB6613FTG ☆		6	0.8	1.50	8	●		●		◇	-20 to +85°C	QON44
TB6614FNG ▲ ☆		15	3.2	0.30	1			●	◇	◇	-20 to +85°C	SSOP16
TB6640FTG/AFTG ☆		40	3.0	1.00	1	●		●	○/◇	○/◇	-40 to +85°C	QFN48
TB6641FG		50	4.5	0.55	1	●	●	●	○	○	-40 to +85°C	HSOP16
TB6641FTG ☆		50	4.5	0.55	1	●	●	●	○	○	-40 to +85°C	QFN32
TB6642FG		50	4.5	0.55	1		●	●	○/◇	○/◇	-40 to +85°C	HSOP16
TB6642FTG ☆		50	4.5	0.55	1		●	●	○/◇	○/◇	-40 to +85°C	QFN32
TB6643KQ		50	4.5	0.55	1		●	●	○	○	-40 to +85°C	HSIP7
TB67H301FTG		40	3.0	1.00	1	●		●	○/◇	○/◇	-40 to +85°C	QFN24
TB67H302HG		50	5.0	0.40	2	●	●	●	○	○	-30 to +85°C	HZIP25
TB67H303HG		50	10.0	0.20	1	●	●	●	○	○	-30 to +85°C	HZIP25
TB67H400AFTG/FNG ☆	●	50	4.0 / 8.0 (4)	0.49 / 0.25 (4)	2/1 (4)	●	●	●	○	○	-20 to +85°C	QFN48/HTSSOP48
TB67H400AHG/NG	●	50	4.0 / 8.0 (4)	0.49 / 0.25 (4)	2/1 (4)	●	●	●	○	○	-20 to +85°C	HZIP25/SDIP24
TB67H401FTG * ☆	●	50	3.0 / 6.0 (4)	0.49 / 0.25 (4)	2/1 (4)	●	●	●	○	○	-20 to +85°C	QFN48
TB67H410FTG/NG ☆	●	50	2.5 / 5.0 (4)	0.80 / 0.40 (4)	2/1 (4)	●	●	●	○	○	-20 to +85°C	QFN48/SDIP24
TB67H420FTG * ☆	●	50	4.5 / 9.0 (4)	0.33 / 0.17 (4)	2/1 (4)	●	●	●	○	○	-20 to +85°C	QFN48
TB67H450FNG ** ☆	●	50	3.5	0.30	1	●	●	●	○	◇	-40 to +85°C	SOP8
TB67H452FTG * ☆	●	40	3.5 / 5.0 (4)	0.60 / 0.30 (4)	4/2 (4)	●	●	●	○	○	-20 to +85°C	QFN48
TC78H600FTG		18	1.0	1.20	2	●		●	○	◇	-20 to +85°C	QFN24
TC78H600FNG ☆		18	1.0	1.20	2	●		●	○	◇	-20 to +85°C	SSOP20
TC78H610FNG ☆		18	1.0	1.20	2			●	○	◇	-20 to +85°C	SSOP16
TC78H611FNG * ☆		18	1.1	0.80	2			●	○	◇	-30 to +85°C	TSSOP16
TC78H620FNG ☆		18	1.0	1.20	2			●	○	◇	-20 to +85°C	SSOP16
TC78H621FNG * ☆		18	1.1	0.80	2			●	○	◇	-30 to +85°C	TSSOP16
TC78H630FNG * ☆		18	2.1	0.40	1			●	○	◇	-30 to +85°C	TSSOP16
TC78H651FNG * ☆		7	1.6	0.30	2		●	●	○	◇	-40 to +105°C	TSSOP16
TC78H651AFNG ** ☆		8	2.0	0.30	2		●	●	○	◇	-40 to +105°C	TSSOP16
TC78H653FTG * ☆	●	8	2.0 / 4.0 (4)	0.30 / 0.15 (4)	2/1 (4)		●	●	○	◇	-40 to +105°C	QFN16
TC78S121FTG/FNG ☆	●	40	3.5 / 5.0 (4)	0.60 / 0.30 (4)	4/2 (4)	●	●	●	○	○	-20 to +85°C	QFN48/HTSSOP48
TC78S122FTG/FNG ☆	●	40	3.5 / 5.0 (4)	0.60 / 0.30 (4)	4/2 (4)	●	●	●	○	○	-20 to +85°C	QFN48/HTSSOP48

☆: Dry-packed / 防湿梱包品

*: New product / 新製品

▲: Not Recommended For New Design / 新規設計非推奨品

** : Under development / 開発中

Note (1): Undervoltage Lockout / 低電圧検出回路

(2): Overcurrent detection / 過電流検出回路

(3): Thermal shutdown / 過熱検出回路

(4): Large Mode

○ Latch type

◇ Non latch type

Brushless Motor Driver ICs / ブラシレスモータドライバ

Part Number	Phases		Controller	Pre Driver	Driver	Maximum Ratings		Sensorless	Hall Sensor Inputs (Number)	Commutation		Lead Angle Control			Closed Loop	Temp. Range T _A	Package
	3-Phase	1-Phase				Voltage (V)	Current (A)			Square	Sine	External Input	Auto (current FB)	Auto (rpm FB)			
TB6551FAG	☆	●	●			12	0.002		3		●	●				-30 to +115°C	SSOP24
TB6556FG	☆	●	●			12	0.002		3		●	●	●			-30 to +115°C	SSOP30
TB6575FNG	☆	●	●			5.5	0.02	●		●		●				-30 to +105°C	SSOP24
TB6584FNG/AFNG	☆	●	●			18	0.002		3		●	●	●			-30 to +115°C	SSOP30
TB6585FG/AFTG	☆	●			●	45	1.8		3		●	●	●			-30 to +85°C	HSOP36/QFN48
TB6586FG/AFG/BFG	☆	●	●			18	0.002		3	●		●				-30 to +115°C	SSOP24
TB6588FG	☆	●			●	50	2.5	●		●		●				-30 to +105°C	HSOP36
TB6603FTG	☆	●		●		30	0.02		3		●	●				-30 to +85°C	QFN36
TB6604FTG	☆	●		●		30	0.02		3		●		●			-30 to +85°C	QFN48
TB6605FTG	☆	●		●		30	0.02		3		●	●		●		-30 to +85°C	QFN36
TC78B004FTG	* ☆	●		●		31	0.1		3		●		●			-30 to +85°C	QFN40
TB6631FNG	☆	●	●			18	0.002		3		●	●		●		-30 to +115°C	SSOP30
TB6633FNG/AFNG	☆	●			●	25	1.0	●		●		●				-30 to +105°C	SSOP24
TB6634FNG	☆	●	●			18	0.002		3		●	●	●			-30 to +115°C	SSOP30
TB67B000HG		●			●	500	2.0		3	●	●	●				-30 to +115°C	HDIP30
TB67B000FG	* ☆	●			●	500	2.0		3	●	●	●				-30 to +115°C	HSSOP34
TB67B000AHG	**	●			●	600	2.0		3	●	●	●				-30 to +115°C	HDIP30
TB67B000AFG	** ☆	●			●	600	2.0		3	●	●	●				-30 to +115°C	HSSOP34
TB67B001FTG/AFTG	☆	●			●	25	3.0	●		●		●		●		-40 to +105°C	QFN36
TB67B008FNG/AFNG/BFNG/CFNG	☆	●			●	25	3.0	●		●		●		●		-40 to +105°C	SSOP24
TB67B008FTG/AFTG/BFTG/CFTG	☆	●			●	25	3.0	●		●		●		●		-40 to +105°C	QFN24
TB67B054FTG	* ☆	●	●			18	0.002		3		●	●	●			-30 to +115°C	QFN32
TB67Z800FTG	☆	●			●	25	3.0									-40 to +105°C	QFN36
TC78B002FTG/FNG	☆		●		●	18	1.5		3	●	●	●				-40 to +105°C	QFN16/SSOP16
TC78B006FNG/AFNG/BFNG/CFNG	☆		●		●	40	0.02		1	●	●					-40 to +105°C	SSOP16
TC78B006FTG/AFTG/BFTG/CFTG	☆		●		●	40	0.02		1	●	●					-40 to +105°C	QFN16
TC78B015FTG	* ☆	●			●	25	3.0		1	●		●		●		-40 to +85°C	QFN36
TC78B015AFTG	* ☆	●			●	36	3.0		1	●		●		●		-40 to +85°C	QFN36
TC78B015BFTG/CFTG	** ☆	●			●	36	3.0		3	●		●		●		-40 to +85°C	QFN36
TC78B016FTG	☆	●			●	40	3.0		3		●	●		●	●	-40 to +105°C	QFN36
TC78B025FTG	* ☆	●			●	18	4.0		1	●	●	●		●	●	-40 to +105°C	QFN24
TC78B027FTG	** ☆	●		●		18	0.2		1	●	●	●		●	●	-40 to +105°C	QFN24

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*: New product / 新製品

**: Under development / 開発中

LED Drivers / LEDドライバ

LED Display Drivers / LEDディスプレイ用ドライバ

Part Number	Recommend application			Interface		Supply voltage (V)			Number of LED channels	LED outputs			Current Accuracy (±%)		LED output dimming and range				Temp. Range TA	Package	
	Amusement	LED display for general	LED display for high-gradation	LED illumination	Serial	2-line BUS	1-line BUS	VDD		VCC	5V LDO	Bipolar	MOS	Voltage (V)	Constant Current (mA)	IC to IC	Out to Out	PWM for each			DAC for all
TB62747AFG/AFNG	●	●		●			3.0 to 5.5			16	●	26	1.5 to 35@ VDD = 3.3 V 1.5 to 45@ VDD = 5.0 V	1.5	1.5				●	-40 to 85	SSOP24
TB62777FG/FNG	●	●		●			3.0 to 5.5			8	●	26	5 to 45	3	6				●	-40 to 85	SSOP16
TB62781FNG	●			●	●		3.0 to 5.5			9	●	28	5 to 40	3	6	● (7-bit)			●	-40 to 85	SSOP20
TB62785NG/FTG	●			●			4.5 to 5.5	4.0 to 17		4 x 8	●	17	5 to 50	7	15			● (4-bit)	●	-40 to 85	SDIP24/ VQFN24
TB62D612FTG	●			●	●		3.0 to 5.5			24	●	28	5 to 40	3	6	● (7-bit)			●	-40 to 85	WQFN36
TB62D786FTG	*	●		●		●	4.5 to 5.5		7 to 28	9	●	28	5 to 40	3	6	● (7-bit)			●	-40 to 85	VQFN24
TB62D787FTG	*	●		●		●	4.5 to 5.5		7 to 28	24	●	28	5 to 40	3	6	● (7-bit)			●	-40 to 85	VQFN40
TC62D748CFG/CFNAG	●	●		●			3.0 to 5.5			16	●	17	1.5 to 90	2.5 1.5@ special	2.5 1.5@ special				●	-40 to 85	SSOP24/ QSOP24
TC62D749CFG/CFNAG	●	●		●			3.0 to 5.5			16	●	17	1.5 to 90	2.5 1.5@ special	2.5 1.5@ special				●	-40 to 85	SSOP24/ QSOP24
TC62D776CFNAG	●	●		●			3.0 to 5.5			16	●	17	1.5 to 90	2.5 1.5@ special	2.5 1.5@ special			● (8-bit)	●	-40 to 85	SSOP24/ QSOP24
TC62D722CFNG	●	●		●			3.0 to 5.5			16	●	17	1.5 to 90	2.5 1.5@ special	2.5 1.5@ special	● (10 to 16-bit)		● (8-bit)	●	-40 to 85	HTSSOP24
TC62D723FNG/FNAG	●	●	●	●			3.0 to 5.5			16	●	17	1.5 to 90	2.5 1.5@ special	2.5 1.5@ special	● (10 to 16-bit)		● (8-bit)	●	-40 to 85	HTSSOP24/ QSOP24

*: New product / 新製品

LED Drivers for LED Lighting / LED照明用ドライバ

Part Number	Recommend application			Type		Supply voltage (V)	Switch MOSFET	PFC	Recommended Power (W)	LED output dimming			TSD	Temp. Range TA	Package
	Bulb/Per	Tube	Ceiling light	Road Light	ACDC Flyback					DCDC Boost down	PWM pulse	Linear voltage			
TB62D901FNG			●	●		●	12 to 30	External		UP to 60	●	●	●	-40 to 85	SSOP20

LED Backlighting drivers / LEDバックライト用ドライバ

Part Number	Application			DCDC type		Supply voltage (V)	Number of LED strings	LED outputs		LED output dimming and range		OVP	TSD	Temp. Range TA	Package
	mobile	car navigation	small monitor	DCDC Boost up	Switch MOSFET			Current sensing Resistor	Constant Current (mA)	PWM pulse	Linear voltage				
TB62763FMG	●			●	External	6	1	●		●	●	●	●	-40 to 85	SON8
TB62771FTG		●	●	●	External	4.75 to 40	4		Up to 150	●	●	●	●	-40 to 85	WQFN20

Intelligent Power Devices (IPDs) / インテリジェントパワーデバイス (IPD)

Low-Voltage IPDs / 低耐圧IPD

(High-Side Switches) / (ハイサイドスイッチ)

Part Number	Package	# Outputs	V _{DSS} (V)	I _O (A)	Junction Temperature T _J (°C)	Characteristics								Operating Temperature Topr (°C)	Operating Supply Voltage (V)	
						R _{DS(ON)} (Ω) Max	Power Dissipation P _D (W)	Protective Functions			Diagnostic Functions					
								Over-current (A)	Over-temperature (°C)	Over-voltage (V)	Over-current	Open Load	Over-temperature			Over-voltage
TPD1052F	PS-8	1 ch	40	0.8	150	0.8	0.7 (mounted on board)	1.2 A (clamp) 0.8 A (duty) Min	150 Min	—	○	—	○	—	—40 to 125	5 to 18
TPD1053F	SOP-8	1 ch	60	3		0.12	1.1 (mounted on board)	3 A Min	150 Min	Active clamp -16 V Typ.	○	○	○	—	—40 to 125	5 to 18
TPD1055FA	WSO10	1 ch	40	3		0.12	1.84 (mounted on board)	3 A Min	150 Min	—	○	○	○	—	—40 to 125	5 to 18
TPD1060F	SOP-8	1 ch	40	3		0.12	0.9 (mounted on board)	3 A Min	150 Min	—	○	○	○	—	—40 to 125	4 to 18

(Low-Side Switches) / (ローサイドスイッチ)

Part Number	Package	# Outputs	V _{DSS} (V)	I _O (A)	Junction Temperature T _J (°C)	Characteristics								Operating Temperature Topr (°C)	Operating Supply Voltage (V)	
						R _{DS(ON)} (Ω) Max	Power Dissipation P _D (W)	Protective Functions			Diagnostic Functions					
								Over-current (A)	Over-temperature (°C)	Over-voltage (V)	Over-current	Open Load	Over-temperature			Over-voltage
TPD1030F	SOP-8	2 ch	40	1	150	0.6	2.0 (t = 10 s) (mounted on board)	1 A Min	150 Min	Active clamp 40 V Min	—	—	—	—	—40 to 110	up to 40
TPD1032F	SOP-8	2 ch	20	3		0.4	0.95 (mounted on board)	3 A Min	150 Min	Active clamp 40 V Min	—	—	—	—	—40 to 110	up to 20
TPD1036F	SOP-8	2 ch	30	1.5		0.5	2.0 (t = 10 s) (mounted on board)	1.5 A Min	150 Min	Active clamp 40 V Min	—	—	—	—	—40 to 110	up to 30
TPD1039F	SOP-8	1 ch	45	1.5		0.25	1.1 (mounted on board)	5 A Typ.	125 Min	Active clamp 45 V Min	—	—	—	—	—40 to 85	up to 45
TPD1044F	PS-8	1 ch	41	1		0.6	0.9 (mounted on board)	1 A Min	150 Min	Active clamp 41 V Min	—	—	—	—	—40 to 125	up to 41
TPD1046F	SOP-8	2 ch	40	3		0.2	0.95 (mounted on board)	3 A Min	150 Min	Active clamp 40 V Min	—	—	—	—	—40 to 125	up to 20
TPD1054F	PS-8	1 ch	40	1		0.8	0.7 (mounted on board)	1 A Min	150 Min	Active clamp 40 V Min	○	○	○	—	—40 to 125	V _{OUT} = up to 40 V _{DD} = 4.5 to 5.5
TPD1058FA	WSO10	1 ch	40	6		0.1	1.84 (mounted on board)	6 A Min	150 Min	Active clamp 40 V Min	○	○	○	—	—40 to 125	V _{OUT} = up to 40 V _{DD} = 4.5 to 5.5

(Pre-drivers) / (プリドライバ)

Part Number	Package	Configuration	# Outputs	Supply Voltage V _{DD} (V)	I _o (A)	Junction Temperature T _j (°C)	Characteristics							Operating Temperature Topr (°C)	Operating Supply Voltage (V)	
							Power Dissipation P _D (W)	Over-current (A)	Overvoltage/Undervoltage (V)		Battery Reverse Protection	Diagnostic Functions				
									Over-voltage	Under-voltage		Over-current	Overvoltage/Undervoltage			
TPD7101F ☆	SSOP-24	High-side Power-MOSFET driver (with built-in charge pump)	2 ch	30	Source current 0.1A Typ. Sink current 0.1A Typ.	150	0.8	Adjustable	—	V _{DD} : 4.5 V Max	—	○	—	○	—40 to 110	8 to 18
TPD7102F	PS-8	High-side Power-MOSFET driver (with built-in charge pump)	1 ch	25	Source current 1mA Typ.		0.7	—	V _{DD} : 18 V Min	—	—	High-side N-ch Power-MOSFET VGS monitor		—40 to 125	7 to 18	
TPD7104F	PS-8	High-side Power-MOSFET driver (with built-in charge pump)	1 ch	24	Source current Internal capacity Sink current 0.5mA Max		0.7	Adjustable	V _{OUT} : V _{DD} + 15.7 V Typ.	—	—	○	—	—	—40 to 125	5 to 18
TPD7104AF	PS-8	High-side Power-MOSFET driver (with built-in charge pump)	1 ch	24	Source current Internal capacity Sink current 0.5mA Max		0.7	Adjustable	V _{OUT} : V _{DD} + 15.7 V Typ.	—	○	○	—	—	—40 to 125	5 to 18
TPD7210F ☆	SSOP-24	Power-MOSFET driver for 3-phase bridge (with built-in charge pump)	6 ch	30	Source current 1A Max Sink current 1A Max		0.8	—	—	—	—	Input arm-short detection		○	—40 to 125	4.5 to 18
TPD7211F	PS-8	Half-bridge Power-MOSFET driver (for high-side P-ch MOSFET drive)	2 ch	30	Source current 0.5A Max Sink current 0.5A Max		0.7	—	—	—	—	—	—	—	—40 to 125	5 to 18
TPD7212F ☆**	WQFN32	Power-MOSFET driver for 3-phase bridge (with built-in charge pump)	6 ch	25	Source current -1.0A Max Sink current +1.5A Max	175	3.6	—	V _{DL} : 18 V Typ.	—	—	—	○ (VDL)	○ (VDH, VDL)	—40 to 150	4.5 to 18

☆: Dry-packed / 防湿梱包品

**: Under development / 開発中

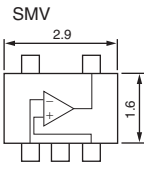
High-Voltage IPDs / 高耐压 IPD

Part Number	Package	Functions	Output Type	Characteristics				Absolute Maximum Ratings (Ta = 25°C)	
				Features	Protective Functions			V _{BB} (V)	I _{OUT} (A)
					Overcurrent	Over-temperature	Undervoltage		
TPD4151K	DIP26	Hall amp input, PWM, 3-phase decoder	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	250	1
TPD4151F *	HSSOP31	Hall amp input, PWM, 3-phase decoder	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	250	1
TPD4142K	DIP26	Hall amp input, PWM, 3-phase decoder	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	500	1
TPD4146K	DIP26	Hall amp input, PWM, 3-phase decoder FGC	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	500	1
TPD4123K	DIP26	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	500	1
TPD4123AK	DIP26	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	—	○	○	500	1
TPD4144K	DIP26	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	500	2
TPD4144AK	DIP26	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	—	○	○	500	2
TPD4135K	DIP26	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	500	3
TPD4135AK	DIP26	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	—	○	○	500	3
TPD4152F *	HSSOP31	Hall amp input, PWM, 3-phase decoder	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	600	0.7
TPD4204F *	SSOP30	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	600	2.5
TPD4206F *	SSOP30	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	500	2.5
TPD4207F *	SSOP30	6-input, low-side driver, high-side driver, 3 shunt type	3-phase full-bridge	High-voltage PWM Brushless DC motor driver	○	○	○	600	5

*: New product / 新製品

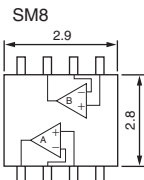
Operational Amplifier ICs (Op Amp ICs) & Comparator ICs / オペアンプ/コンパレータ

Operational Amplifier ICs (Op Amp ICs) & Comparator ICs / オペアンプ/コンパレータ (Bipolar, Single-Circuit Type) / (バイポーラ, シングル品)

Part Number	Package	Marking	Functions	Features	Supply Voltage (V)	Internal Connections
TA75S393F	SMV	TA	Bipolar comparator	Single/dual power supply, open-collector output	2 to 36 or ± 1 to ± 18	(Unit: mm) 
TA75S01F	SMV	SA	Bipolar Op Amp	Single/dual power supply, unity gain stable	3 to 12 or ± 1.5 to ± 6	
TA75S558F	SMV	SB		Dual power supply	± 4 to ± 18	

- ・ Note that input pin configurations of the single op amp and comparator ICs differ. US8 and SM8 have the same pin configuration.
- ・ The internal connection diagrams only show the general configurations of the circuits.
- ・ シングルタイプのオペアンプとコンパレータの入力端子のピン配置が異なりますのでご注意ください。なお、US8, SM8タイプは同一のピン配置です。
- ・ 内部接続図はイメージ図です。

(Bipolar, Dual-Circuit Type) / (バイポーラ, デュアル品)

Part Number	Package	Marking	Functions	Features	Supply Voltage (V)	Internal Connections
TA75W393FU	SM8	5W393	Bipolar comparator	Single/dual power supply, open-collector output	2 to 36 or ± 1 to ± 18	(Unit: mm) 
TA75W01FU	SM8	5W01	Bipolar Op Amp	Single/dual power supply, unity gain stable	3 to 12 or ± 1.5 to ± 6	
TA75W558FU	SM8	5W558		Dual power supply	± 4 to ± 18	

- ・ The internal connection diagrams only show the general configurations of the circuits.
- ・ 内部接続図はイメージ図です。

Operational Amplifier ICs (Op Amp ICs) & Comparator ICs / オペアンプ/コンパレータ (CMOS, Single-Circuit Type) / (CMOS, シングル品)

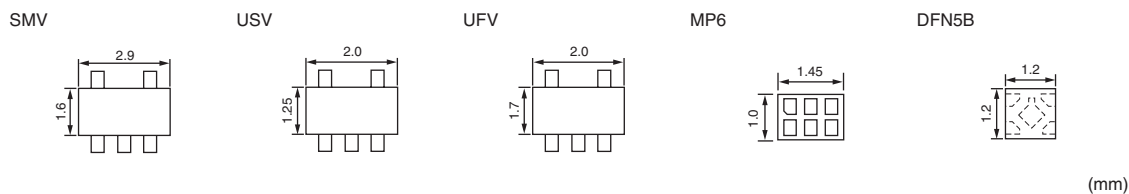
Part Number	Package	Marking	Functions	Features	Supply Voltage (V)	Internal Connections			
TC75S56F	SMV	TC	CMOS comparator	Single/dual power supply, push-pull output, ultra-low current consumption	1.8 to 7 or ±0.9 to ±3.5				
TC75S56FU	USV								
TC75S57F	SMV	TD					Single/dual power supply, push-pull output, low current consumption	1.8 to 7 or ±0.9 to ±3.5	
TC75S57FU	USV								
TC75S58F	SMV	TE					Single/dual power supply, open-drain output, ultra-low current consumption	1.8 to 7 or ±0.9 to ±3.5	
TC75S58FU	USV								
TC75S59F	SMV	TF					Single/dual power supply, open-drain output, low current consumption	1.8 to 7 or ±0.9 to ±3.5	
TC75S59FU	USV								
TC75S70L6X	MP6	VQ	CMOS comparator with a full range of input and output voltages	Single/dual power supply, full range of input and output voltages, low bias current, low-voltage operation	1.3 to 4.6 or ±0.65 to ±2.3	 (Top View)			
TC75S51F	SMV	SC	CMOS Op Amp	Single/dual power supply, low-voltage operation	1.5 to 7 or ±0.75 to ±3.5				
TC75S51FU	USV								
TC75S54F	SMV	SE					Single/dual power supply, low-voltage operation, low current consumption	1.8 to 7 or ±0.9 to ±3.5	
TC75S54FU	USV								
TC75S55F	SMV	SF					Single/dual power supply, low-voltage operation, ultra-low current consumption	1.8 to 7 or ±0.9 to ±3.5	
TC75S55FU	USV								
TC75S63TU	UFV	SP					Single/dual power supply, low current consumption, low noise	2.2 to 5.5 or ±1.1 to ±2.75	
TC75S67TU	UFV	SA1					Single/dual power supply, low current consumption, low noise	2.2 to 5.5 or ±1.1 to ±2.75	
TC75S102F **	SMV	SA2	CMOS Op Amp with a full range of input and output voltages	Single/dual power supply Low Input offset voltage: 1 mV (Max) Ultra low current consumption: 0.3 μA full range of input and output voltages	1.6 to 5.5 or ±0.8 to 2.75				
TC75S012FU **	UFV								
TC75S102FE **	ESV								
TC75S102N **	DFN5B								
TC75S103F **	SMV	SA3				CMOS Op Amp with a full range of input and output voltages	Single/dual power supply Low Input offset voltage: 1 mV (Max) low current consumption: 100 μA full range of input and output voltages	1.8 to 5.5 or ±0.9 to 2.75	
TC75S103FU **	UFV								
TC75S103FE **	ESV								
TC75S103N **	DFN5B								
TC75S104F **	SMV	SA4	CMOS Op Amp with a full range of input and output voltages	Single/dual power supply Low Input offset voltage: 1.5 mV (Max) low current consumption: 1 mA full range of input and output voltages	2.0 to 5.5 or ±1.0 to 2.75				
TC75S104FU **	UFV								

• The internal connection diagrams only show the general configurations of the circuits.

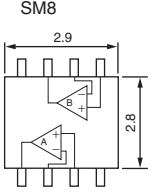
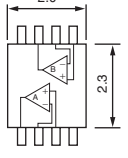
** : Under development / 開発中

• 内部接続図はイメージ図です。

Package Lineup / パッケージラインナップ



(CMOS, Dual-Circuit Type) / (CMOS, デュアル品)

Part Number	Package	Marking	Functions	Features	Supply Voltage (V)	Internal Connections
TC75W56FU	SM8	5W56	CMOS comparator	Single/dual power supply, push-pull output, ultra-low current consumption	1.8 to 7 or ± 0.9 to ± 3.5	(Unit: mm) SM8 
TC75W56FK	US8					
TC75W57FU	SM8	5W57		Single/dual power supply, push-pull output, low current consumption	1.8 to 7 or ± 0.9 to ± 3.5	
TC75W57FK	US8					
TC75W58FU	SM8	5W58		Single/dual power supply, open-drain output, ultra-low current consumption	1.8 to 7 or ± 0.9 to ± 3.5	
TC75W58FK	US8					
TC75W59FU	SM8	5W59	Single/dual power supply, open-drain output, low current consumption	1.8 to 7 or ± 0.9 to ± 3.5		
TC75W59FK	US8					
TC75W51FU	SM8	5W51	CMOS Op Amp	Single/dual power supply, low-voltage operation	1.5 to 7 or ± 0.75 to ± 3.5	US8 
TC75W51FK	US8					
TC75W54FU	SM8	5W54		Single/dual power supply, low-voltage operation, low current consumption	1.8 to 7 or ± 0.9 to ± 3.5	
TC75W54FK	US8					
TC75W55FU	SM8	5W55		Single/dual power supply, low-voltage operation, ultra-low current consumption	1.8 to 7 or ± 0.9 to ± 3.5	
TC75W55FK	US8					

- ・ The internal connection diagrams only show the general configurations of the circuits.
- ・ 内部接続図はイメージ図です。

Transistor Arrays / トランジスタアレイ

Transistor Arrays / トランジスタアレイ

Part Number	Type		Maximum Ratings		Input Level	Input Voltage Range (V)	Inductive Load	Common Diode	Temp. Range T _A	Package	Existing Part Number
	Output Type	Ch	Output Voltage (V)	Output Current (A)							
TBD62064APG	Sink	4ch	50	1.5	High	2.5 to 25	●	●	-40 to +85°C	DIP16	TD62064APG
TBD62064AFG	Sink	4ch	50	1.5	High	2.5 to 25	●	●	-40 to +85°C	HSOP16	TD62064AFG
TBD62064AFAG	Sink	4ch	50	1.5	High	2.5 to 25	●	●	-40 to +85°C	SSOP24	TD62064AFG
TBD62308APG	Sink	4ch	50	1.5	Low	0 to VCC-3.5 V	●	●	-40 to +85°C	DIP16	TD62308APG
TBD62308AFG	Sink	4ch	50	1.5	Low	0 to VCC-3.5 V	●	●	-40 to +85°C	HSOP16	TD62308AFG
TBD62308AFAG	Sink	4ch	50	1.5	Low	0 to VCC-3.5 V	●	●	-40 to +85°C	SSOP24	TD62308AFG
TBD62003APG	Sink	7ch	50	0.5	High	2.5 to 25	●	●	-40 to +85°C	DIP16	TD62003APG, ULN2003APG
TBD62003AFG	Sink	7ch	50	0.5	High	2.5 to 25	●	●	-40 to +85°C	SOP16	TD62003AFG, ULN2003AFWG
TBD62003AFNG	Sink	7ch	50	0.5	High	2.5 to 25	●	●	-40 to +85°C	SSOP16	TD62003AFG, ULN2003AFWG
TBD62003AFWG	Sink	7ch	50	0.5	High	2.5 to 25	●	●	-40 to +85°C	SOL16	TD62003AFG, ULN2003AFWG
TBD62004APG	Sink	7ch	50	0.5	High	7.0 to 25	●	●	-40 to +85°C	DIP16	TD62004APG, ULN2004APG
TBD62004AFG	Sink	7ch	50	0.5	High	7.0 to 25	●	●	-40 to +85°C	SOP16	TD62004AFG, ULN2004AFWG
TBD62004AFNG	Sink	7ch	50	0.5	High	7.0 to 25	●	●	-40 to +85°C	SSOP16	TD62004AFG, ULN2004AFWG
TBD62004AFWG	Sink	7ch	50	0.5	High	7.0 to 25	●	●	-40 to +85°C	SOL16	TD62004AFG, ULN2004AFWG
TBD62304APG	Sink	7ch	50	0.5	Low	-20 to VCC-3.5	—	—	-40 to +85°C	DIP16	TD62304APG, TD62305APG
TBD62304AFNG	Sink	7ch	50	0.5	Low	-20 to VCC-3.5	—	—	-40 to +85°C	SSOP16	TD62304AFNG, TD62305AFNG
TBD62304AFWG	Sink	7ch	50	0.5	Low	-20 to VCC-3.5	—	—	-40 to +85°C	SOL16	TD62304AFG, TD62305AFG
TBD62502APG	Sink	7ch	50	0.3	High	14 to 25	—	—	-40 to +85°C	DIP16	TD62502PG
TBD62502AFG	Sink	7ch	50	0.3	High	14 to 25	—	—	-40 to +85°C	SOP16	TD62502FG
TBD62502AFNG	Sink	7ch	50	0.3	High	14 to 25	—	—	-40 to +85°C	SSOP16	TD62502FNG
TBD62502AFWG	Sink	7ch	50	0.3	High	14 to 25	—	—	-40 to +85°C	SOL16	TD62502FG
TBD62503APG	Sink	7ch	50	0.3	High	2.5 to 25	—	—	-40 to +85°C	DIP16	TD62503PG
TBD62503AFG	Sink	7ch	50	0.3	High	2.5 to 25	—	—	-40 to +85°C	SOP16	TD62503FG
TBD62503AFNG	Sink	7ch	50	0.3	High	2.5 to 25	—	—	-40 to +85°C	SSOP16	TD62503FNG
TBD62503AFWG	Sink	7ch	50	0.3	High	2.5 to 25	—	—	-40 to +85°C	SOL16	TD62503FG
TBD62083APG	Sink	8ch	50	0.5	High	2.5 to 25	●	●	-40 to +85°C	DIP18	TD62083APG, ULN2803APG
TBD62083AFG	Sink	8ch	50	0.5	High	2.5 to 25	●	●	-40 to +85°C	SOP18	TD62083AFG, ULN2803AFWG
TBD62083AFNG	Sink	8ch	50	0.5	High	2.5 to 25	●	●	-40 to +85°C	SSOP18	TD62083AFNG
TBD62083AFWG	Sink	8ch	50	0.5	High	2.5 to 25	●	●	-40 to +85°C	SOL18	TD62083AFG, ULN2803AFWG
TBD62183AFNG	Sink	8ch	50	0.05	High	2.5 to 25	●	●	-40 to +85°C	SSOP18	TD62083AFNG
TBD62183AFWG	Sink	8ch	50	0.05	High	2.5 to 25	●	●	-40 to +85°C	SOL18	TD62083AFG, ULN2803AFWG
TBD62084APG	Sink	8ch	50	0.5	High	7.0 to 25	●	●	-40 to +85°C	DIP18	TD62084APG, ULN2804APG
TBD62084AFG	Sink	8ch	50	0.5	High	7.0 to 25	●	●	-40 to +85°C	SOP18	TD62084AFG, ULN2804AFWG
TBD62084AFNG	Sink	8ch	50	0.5	High	7.0 to 25	●	●	-40 to +85°C	SSOP18	TD62084AFNG
TBD62084AFWG	Sink	8ch	50	0.5	High	7.0 to 25	●	●	-40 to +85°C	SOL18	TD62084AFG, ULN2804AFWG
TBD62089APG	Sink	8ch	50	0.5	High	0.7 x VDD to VDD	—	—	-40 to +85°C	DIP20	TC74HC273AP + TD62083APG
TBD62381APG	Sink	8ch	50	0.5	High	2.0 to 25	—	—	-40 to +85°C	DIP18	TD62381PG
TBD62381AFNG	Sink	8ch	50	0.5	High	2.0 to 25	—	—	-40 to +85°C	SSOP18	TD62381FNG
TBD62381AFWG	Sink	8ch	50	0.5	High	2.0 to 25	—	—	-40 to +85°C	SOL18	TD62381FG
TBD62384APG	Sink	8ch	50	0.5	Low	-20 to VCC-3.5	—	—	-40 to +85°C	DIP18	TD62382APG, TD62384APG, TD62385APG
TBD62384AFWG	Sink	8ch	50	0.5	Low	-20 to VCC-3.5	—	—	-40 to +85°C	SOL18	TD62382AFG, TD62384AFG, TD62385AFG
TBD62387APG	Sink	8ch	50	0.5	Low	0 to VCC-3.5	●	●	-40 to +85°C	DIP20	TD62387APG
TBD62387AFNG	Sink	8ch	50	0.5	Low	0 to VCC-3.5	●	●	-40 to +85°C	SSOP20	TD62387AFNG
TBD62781APG	Source	8ch	50	-0.5	High	2.0 to 25	—	—	-40 to +85°C	DIP18	TD62781APG
TBD62781AFWG	Source	8ch	50	-0.5	High	2.0 to 25	—	—	-40 to +85°C	SOL18	TD62781AFG
TBD62783APG	Source	8ch	50	-0.5	High	2.0 to 25	●	●	-40 to +85°C	DIP18	TD62783APG
TBD62783AFG	Source	8ch	50	-0.5	High	2.0 to 25	●	●	-40 to +85°C	SOP18	TD62783AFG, TD62783AFWG
TBD62783AFNG	Source	8ch	50	-0.5	High	2.0 to 25	●	●	-40 to +85°C	SSOP18	TD62783AFNG
TBD62783AFWG	Source	8ch	50	-0.5	High	2.0 to 25	●	●	-40 to +85°C	SOL18	TD62783AFG, TD62783AFWG
TBD62785APG	Source	8ch	50	-0.5	Low	0 to VCC-3.5	—	—	-40 to +85°C	DIP18	TD62785PG
TBD62785AFWG	Source	8ch	50	-0.5	Low	0 to VCC-3.5	—	—	-40 to +85°C	SOL18	TD62785FG
TBD62786APG	Source	8ch	50	-0.5	Low	-30 to -2.8	●	●	-40 to +85°C	DIP18	TD62786APG
TBD62786AFNG	Source	8ch	50	-0.5	Low	-30 to -2.8	●	●	-40 to +85°C	SSOP18	TD62786AFNG
TBD62786AFWG	Source	8ch	50	-0.5	Low	-30 to -2.8	●	●	-40 to +85°C	SOL18	TD62786AFG
TBD62789APG	Source	8ch	50	-0.5	High	2.0 to 5.5V	●	●	-40 to +85°C	DIP20	TC74HC273AP + TD62783APG

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