

SWIFT Converter Product Portfolio

SWIFT Products

PART NUMBER	V _{IN} (V)	V _{OUT} (V)	I _{OUT} (A)	I _q (Typ) (mA)	SYNC BUCK	F _{sw} (kHz)	PACKAGE	FEATURES
Wide Input Voltage								
TPS54040	3.5 to 42	0.8 to 39	0.5	0.116	No	100 to 2500	10MSOP PowerPAD™	PG, EN, SoftStart, UVLO, RT, TRACKIN, CLK, Ext. Comp., Eco-Mode™
TPS5401	3.5 to 42	0.8 to 39	0.5	0.116	No	100 to 2500	10MSOP PowerPAD™	3% VREF, PG, EN, SoftStart, UVLO, RT, CLK, Ext. Comp., Eco-Mode™
TPS54060	3.5 to 60	0.8 to 57	0.5	0.116	No	100 to 2500	10MSOP PowerPAD™, 3x3mm 10SON	PG, EN, SoftStart, UVLO, RT, TRACKIN, CLK, Ext. Comp., Eco-Mode™
TPS54062	4.7 to 60	0.8 to 58	0.05	0.089	Yes	100 to 400	8MSOP	EN, RT, CLK, Ext. Comp.
TPS5410	5.5 to 36	1.23 to 31	1	3	No	500	8SOIC	EN, Int. Comp.
TPS54140	3.5 to 42	0.8 to 39	1.5	0.116	No	300 to 2500	10MSOP PowerPAD™	PG, EN, SoftStart, UVLO, RT, TRACKIN, CLK, Ext. Comp., Eco-Mode™
TPS54160	3.5 to 60	0.8 to 57	1.5	0.116	No	300 to 2500	10MSOP, PowerPAD™, 3x3mm 10SON	PG, EN, SoftStart, UVLO, RT, TRACKIN, CLK, Ext. Comp., Eco-Mode™
TPS54240	3.5 to 42	0.8 to 39	2.5	0.138	No	300 to 2500	10MSOP PowerPAD™	PG, EN, SoftStart, UVLO, RT, TRACKIN, CLK, Ext. Comp., Eco-Mode™
TPS5420	5.5 to 36	1.23 to 31	2	3	No	500	8SOIC	EN, Int. Comp.
TPS54260	3.5 to 60	0.8 to 57	2.5	0.138	No	100 to 2500	10MSOP PowerPAD™, 3x3mm 10SON	PG, EN, SoftStart, UVLO, RT, TRACKIN, CLK, Ext. Comp., Eco-Mode™
TPS5430	5.5 to 36	1.23 to 31	3	3	No	500	8SO PowerPAD™	EN, Int. Comp.
TPS5431	5.5 to 23	1.23 to 20	3	3	No	500	8SO PowerPAD™	EN, Int. Comp.
TPS5450	5.5 to 36	1.22 to 31	5	3	No	500	8HSOIC PowerPAD™	EN, Int. Comp.

SWIFT Products (continued)

PART NUMBER	V _{IN} (V)	V _{OUT} (V)	I _{OUT} (A)	I _q (Typ) (mA)	SYNC BUCK	F _{sw} (kHz)	PACKAGE	FEATURES
Mid Input Voltage								
TPS54225	4.5 to 18	0.76 to 5.5	2	0.80	Yes	700	14HTSSOP	PG, EN, SoftStart, D-CAP2™
TPS54226	4.5 to 18	0.76 to 5.5	2	0.80	Yes	700	14HTSSOP, 3x3mm 14QFN	PG, EN, SoftStart, Eco-Mode™, D-CAP2™
TPS54227	4.5 to 18	0.76 to 7	2	0.80	Yes	700	8SO PowerPAD™	EN, SoftStart, Int. Comp., D-CAP2™
TPS54228	4.5 to 18	0.76 to 7	2	0.80	Yes	700	8SO PowerPAD™	EN, SoftStart, Int. Comp., D-CAP2™, Eco-Mode™
TPS54320	4.5 to 17	0.8 to 15	3	0.60	Yes	200 to 1200	3.5x3.5mm 14QFN	PG, EN, SoftStart, RT, TRACKIN, CLK, Ext. Comp., Prebias
TPS54325	4.5 to 18	0.76 to 5.5	3	0.85	Yes	700	14HTSSOP	PG, EN, SoftStart, D-CAP2™
TPS54326	4.5 to 18	0.76 to 5.5	3	0.85	Yes	700	14HTSSOP, 3x3mm 14QFN	PG, EN, SoftStart, Eco-Mode™, D-CAP2™
TPS54327	4.5 to 18	0.76 to 7.0	3	0.85	Yes	700	8SO PowerPAD™	EN, SoftStart, D-CAP2™
TPS54328	4.5 to 18	0.76 to 7.0	3	0.85	Yes	700	8SO PowerPAD™	EN, SoftStart, D-CAP2™, Eco-Mode™
TPS54350	4.5 to 20	0.9 to 12	3	9	Yes	250 to 700	16HTSSOP	PG, EN, SYNC, UVLO, LSG, RT, Ext. Comp., 180° out of phase
TPS54425	4.5 to 18	0.76 to 5.5	4	0.85	Yes	700	14HTSSOP	PG, EN, SoftStart, D-CAP2™
TPS54426	4.5 to 18	0.76 to 5.5	4	0.85	Yes	700	14HTSSOP	PG, EN, SoftStart, Eco-Mode™, D-CAP2™
TPS54429	7 to 18	0.76 to 5.5	4.5	0.60	Yes	700	14HTSSOP PowerPAD™	PG, EN, SoftStart, Int. Comp., D-CAP2™
TPS54429E	7 to 18	0.76 to 5.5	4.5	0.60	Yes	700	14HTSSOP, 16QFN PowerPAD™	PG, EN, SoftStart, Int. Comp., D-CAP2™, Eco-Mode™
TPS54550	4.5 to 20	0.9 to 12	6	9	Yes	250 to 700	16HTSSOP	PG, EN, SoftStart, SYNC, UVLO, LSG, RT, Int. Comp., 180° out of phase
TPS54620	4.5 to 17	0.8 to 16	6	0.60	Yes	200 to 1600	3.5x3.5mm 14QFN	PG, EN, RT, CLK, TR, SoftStart, Ext. Comp., Prebias
TPS54622	4.5 to 17	0.6 to 15	6	0.60	Yes	200 to 1600	14QFN	PG, EN, RT, CLK, TR, SoftStart, Ext. Comp., Pre-Bias
TPS54521	4.5 to 17	0.8 to 15	5	0.60	Yes	200 to 900	3.5x3.5mm 14QFN	PG, EN, RT, CLK, SoftStart, UVLO, Ext. Comp., TRACKIN
TPS54527	4.5 to 18	0.76 to 6	5	0.90	Yes	650	8SO PowerPAD™	EN, SoftStart, Int. Comp., D-CAP2™
TPS54528	4.5 to 18	0.76 to 6	5	0.90	Yes	650	8SO PowerPAD™	EN, SoftStart, Int. Comp., D-CAP2™, Eco-Mode™
TPS54231	3.5 to 28	0.8 to 25	2	0.11	No	570	8SOIC	EN, SoftStart, UVLO, Ext. Comp., Eco-Mode™
TPS54232	3.5 to 28	0.8 to 25	2	0.11	No	1000	8SOIC	EN, SoftStart, UVLO, Ext. Comp., Eco-Mode™
TPS54233	3.5 to 28	0.8 to 25	2	0.11	No	300	8SOIC	EN, SoftStart, UVLO, Ext. Comp., Eco-Mode™
TPS54331	3.5 to 28	0.8 to 25	3	0.11	No	570	8SOIC	EN, SoftStart, UVLO, Ext. Comp., Eco-Mode™
TPS54332	3.5 to 28	0.8 to 25	3.5	0.11	No	1000	8HSOIC PowerPAD™	EN, SoftStart, UVLO, Ext. Comp., Eco-Mode™
TPS56121	4.5 to 14	0.6 to 12	15	2.50	Yes	300/500/1000	22SON	PG, EN, SoftStart, Ext. Comp., Pre-Bias
TPS56221	4.5 to 14	0.6 to 12	25	2.50	Yes	300/500/1000	22SON	PG, EN, SoftStart, Ext. Comp., Pre-Bias

SWIFT Products (continued)

PART NUMBER	V _{IN} (V)	V _{OUT} (V)	I _{OUT} (A)	I _q (Typ) (mA)	SYNC BUCK	F _{sw} (kHz)	PACKAGE	FEATURES
Mid Input Voltage, Dual								
TPS54283	4.5 to 28	0.8 to 25.2	2 / 2	1.80	No	300	14HTSSOP	EN1, EN2, ILIM2, SEQ, Int. Comp., 180° out of phase
TPS54286	4.5 to 28	0.8 to 25.2	2 / 2	1.80	No	600	14HTSSOP	EN1, EN2, ILIM2, SEQ, Int. Comp., 180° out of phase
TPS54290	4.5 to 28	0.8 to 25.2	2.5/1.5	1.65	No	300	16HTSSOP	EN1, EN2, 180° out of phase, Splitrail, Ext. Comp.,
TPS54291	4.5 to 28	0.8 to 25.2	2.5/1.5	1.65	No	600	16HTSSOP	EN1, EN2, 180° out of phase, Splitrail, Ext. Comp.,
TPS54292	4.5 to 28	0.8 to 25.2	2.5/1.5	1.65	No	1200	16HTSSOP	EN1, EN2, 180° out of phase, Splitrail, Ext. Comp.,
TPS54383	4.5 to 28	0.8 to 25.2	3 / 3	1.80	No	300	14HTSSOP	EN1, EN2, ILIM2, SEQ, Int. Comp., 180° out of phase
TPS54386	4.5 to 28	0.8 to 25.2	3 / 3	1.80	No	600	14HTSSOP	EN1, EN2, ILIM2, SEQ, Int. Comp., 180° out of phase
TPS55383	4.5 to 28	0.8 to 25.2	3 / 3	1.80	No	300	16HTSSOP	EN1, EN2, ILIM2, SEQ, Ext. Comp., 180° out of phase
TPS55386	4.5 to 28	0.8 to 25.2	3 / 3	1.80	No	600	16HTSSOP	EN1, EN2, ILIM2, SEQ, Ext. Comp., 180° out of phase
Low Input Voltage								
TPS54110	3 to 6	0.9 to 4.5	1.5	4.20	Yes	280 to 700	20HTSSOP	PG, EN, SoftStart, SYNC, RT, Ext. Comp.
TPS54218	2.95 to 6	0.8 to 5	2	0.35	Yes	200 to 2000	3x3mm 16QFN	PG, EN, RT, CLK, SoftStart, Ext. Comp.
TPS54310	3 to 6	0.9 to 3.3	3	6.20	Yes	280 to 700	20HTSSOP	PG, EN, SoftStart, SYNC, RT, Ext. Comp.
TPS54317	3 to 6	0.9 to 3.3	3	6.20	Yes	280 to 1600	4x5mm 24QFN	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54318	2.95 to 6	0.8 to 5	3	0.35	Yes	200 to 2000	3x3mm 16QFN	PG, EN, RT, CLK, SoftStart, Ext. Comp.
TPS54319	2.95 to 6	0.82 to 4.5	3	0.25	Yes	300 to 2000	3x3mm 16QFN	3% VREF, PG, EN, RT, CLK, SoftStart, Ext. Comp.
TPS54418	2.95 to 6	0.8 to 5	4	0.35	Yes	200 to 2000	3x3mm 16QFN	PG, EN, RT, CLK, SoftStart, Ext. Comp.
TPS54478	2.95 to 6	0.8 to 4.5	2	0.35	Yes	200 to 2000	16QFN PowerPAD™	EN, SoftStart, RT, CLK, Ext. Comp., Pre-Bias
TPS54617	3 to 6	0.9 to 4.5	6	11	Yes	280 to 1600	3.5x7mm 34QFN	PG, EN, SoftStart, RT, Ext. Comp.
TPS54618	2.95 to 6	0.8 to 4.5	6	0.25	Yes	300 to 2000	3x3mm 16QFN	PG, EN, RT, CLK, SoftStart, Ext. Comp.
TPS54610	3 to 6	0.9 to 4.5	6	11	Yes	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54810	4 to 6	0.9 to 3.3	8	11	Yes	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54917	3 to 4	0.9 to 2.5	9	11	Yes	280 to 1600	3.5x7mm 34QFN	PG, EN, SoftStart, RT, Ext. Comp.
TPS54910	3 to 4	0.9 to 2.5	9	11	Yes	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54010	2.2 to 4	0.9 to 2.5	14	13	Yes	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.

SWIFT Products (continued)

PART NUMBER	V _{IN} (V)	V _{OUT} (V)	I _{OUT} (A)	I _q (Typ) (mA)	SYNC BUCK	F _{sw} (kHz)	PACKAGE	FEATURES
DDR Memory (Active Bus Termination)								
TPS54372	3 to 6	0.2 to 4.5	3	6.20	Yes	280 to 700	20HTSSOP	PG, EN, RT, REFIN, Ext. Comp.
TPS54672	3 to 6	0.2 to 4.5	6	11	Yes	280 to 700	28HTSSOP	PG, EN, RT, REFIN, Ext. Comp.
TPS54872	4 to 6	0.2 to 3.3	8	11	Yes	280 to 700	28HTSSOP	PG, EN, RT, REFIN, Ext. Comp.
TPS54972	3 to 4	0.2 to 2.5	9	11	Yes	280 to 700	20HTSSOP	PG, EN, RT, REFIN, Ext. Comp.
Sequencing								
TPS54380	3 to 6	0.9 to 4.5	3	6.20	Yes	280 to 700	20HTSSOP	PG, EN, RT, TRACKIN, Ext. Comp.
TPS54680	3 to 6	0.9 to 4.5	6	11	Yes	280 to 700	28HTSSOP	PG, EN, RT, TRACKIN, Ext. Comp.
TPS54880	4 to 6	0.9 to 3.3	8	11	Yes	280 to 700	28HTSSOP	PG, EN, RT, TRACKIN, Ext. Comp.
TPS54980	3 to 4	0.9 to 2.5	9	11	Yes	280 to 700	28HTSSOP	PG, EN, RT, TRACKIN, Ext. Comp.
Pre Bias								
TPS54073	2.2 to 4	0.9 to 2.5	14	13	Yes	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54373	3 to 6	0.9 to 3.3	3	6.20	Yes	280 to 700	20HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54377	3 to 6	0.9 to 3.3	3	6.20	Yes	280 to 1600	24QFN	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54673	3 to 6	0.9 to 4.5	6	11	Yes	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54873	4 to 6	0.9 to 3.3	8	11	Yes	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54973	3 to 4	0.9 to 2.5	9	11	Yes	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
Isolated								
TPS55010	2.95 to 6	5 to 20	0.1	0.36	No	100 to 2000	16WQFN	EN, SoftStart, UVLO, RT, CLK, Ext. Comp.

Glossary

NAME	DEFINITION
PG	Power Good pin
EN	Enable pin
SYNC	Synchronization pin
UVLO	Undervoltage lockout pin
LSG	Gate drive for low-side MOSFET
RT	Frequency setting pin
SoftStart	Adjustable Slow Start
TRACKIN	External reference input pin for simultaneous sequencing
REFIN	External reference input pin for Active Bus Termination
ILIM2	Current limit adjust pin for output 2 only
SEQ	Configure the output startup mode pin
Ext. Comp.	Externally Compensated
Int. Comp.	Internally Compensated
Eco-Mode™	High efficiency at light load
CLK	Clock pin to synchronize frequency (internal PLL)
D-CAP2™	Adaptive on-time needs no compensation components
180° out of phase	Interleaved switching reduces input capacitance
Prebias	Disabled sinking during start up
Isolated	Primary-side regulation allows an isolated solution without an optocoupler

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