



Selection Guide SLVT153C–September 2007–Revised October 2008

## SWIFT Converter Product Portfolio

					SWIFT P	roducts		
	V <sub>IN</sub> (V)	V <sub>оит</sub> (V)	І <sub>оυт</sub> (А)	l <sub>q</sub> (Typ) (mA)	SWITCHING FREQUENCY			
					FIXED (kHz)	ADJUSTABLE (kHz)	PACKAGE	FEATURES
Wide Input V	oltage, Non	Synchronou	s Buck				1.14	7.751012
<u>TPS5410</u>	5.5 to 36	1.23 to 31	1	3	500	-	8SOIC	EN, Int. Comp.
<u>TPS54160</u>	3.5 to 60	0.8 to 57	1.5	0.116	-	300 to 2500	10MSOP, PowerPAD™	TM, PG, EN, SoftStart, UVLO, RT, TRACKIN, CLK, Ext. Comp., Eco-Mode™
TPS5420	5.5 to 36	1.23 to 31	2	3	500		8SOIC	EN, Int. Comp.
<u>TPS5430</u>	5.5 to 36	1.23 to 31	3	3	500	-	8SO PowerPAD™	EN, Int. Comp.
<u>TPS5450</u>	5.5 to 36	1.22 to 31	5	3	500	-	8HSOIC PowerPAD™	EN, Int. Comp.
Mid Input Vo	ltage, Synch	ronous Buc	k					
TPS54350	4.5 to 20	0.9 to 12	3	9	250, 500	250 to 700	16HTSSOP	PG, EN, SYNC, UVLO, LSG, RT, Ext. Comp., 180° out of phase
<u>TPS5435x</u>	4.5 to 20	1.2, 1.5, 1.8, 2.5, 3.3, 5.0	3	9	250, 500	250 to 700	16HTSSOP	PG, EN, SYNC, UVLO, LSG, RT, Int. Comp., 180° out of phase
<u>TPS54550</u>	4.5 to 20	0.9 to 12	6	9	<b>250</b> , 500	250 to 700	16HTSSOP	PG, EN, SoftStart, SYNC, UVLO, LSG, RT, Int. Comp., 180° out of phase
Mid Input Vo	Itage, Non S	ynchronous	Buck	22	COM			-
TPS54231	3.5 to 28	0.8 to 25	2	0.11	570	-	8SOIC	EN, SoftStart, UVLO, Ext. Comp., Eco-Mode™
TPS54331	3.5 to 28	0.8 to 25	3	0.11	570	-	8SOIC	EN, SoftStart, UVLO, Ext. Comp., Eco-Mode™
Mid Input Vo	Itage, Dual,	Non Synchro	onous E	Buck				一方切四
TPS54283	4.5 to 28	0.8 to 25.2	2/2	1.8	300	-	14HTSSOP	EN1, EN2, ILIM2, SEQ, Int. Comp.
TPS54286	4.5 to 28	0.8 to 25.2	2/2	1.8	600		14HTSSOP	EN1, EN2, ILIM2, SEQ, Int. Comp.
TPS54383	4.5 to 28	0.8 to 25.2	3/3	1.8	300	100 - In V	14HTSSOP	EN1, EN2, ILIM2, SEQ, Int. Comp.
TPS54386	4.5 to 28	0.8 to 25.2	3/3	1.8	600	-18-2	14HTSSOP	EN1, EN2, ILIM2, SEQ, Int. Comp.
<u>TPS55383</u>	4.5 to 28	0.8 to 25.2	3/3	1.8	300		16HTSSOP	EN1, EN2, ILIM2, SEQ, Ext. Comp.
<u>TPS55386</u>	4.5 to 28	0.8 to 25.2	3/3	1.8	600	-	16HTSSOP	EN1, EN2, ILIM2, SEQ, Ext. Comp.





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SWIFT Products (continued)								
PART NUMBER	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>OUT</sub> (A)	l <sub>q</sub> (Typ) (mA)	SWITCHING FREQUENCY			
					FIXED (kHz)	ADJUSTABLE (kHz)	PACKAGE	FEATURES
Low Input Vo	Itage, Synch	nronous Buc	k					
TPS54110	3 to 6	0.9 to 4.5	1.5	4.2	350, 550	280 to 700	20HTSSOP	PG, EN, SoftStart, SYNC, RT, Ext. Comp.
TPS54310	3 to 6	0.9 to 3.3	3	6.2	350, 550	280 to 700	20HTSSOP	PG, EN, SoftStart, SYNC, RT, Ext. Comp.
<u>TPS5431x</u>	3 to 6	0.9, 1.2, 1.8, 2.5, 3.3	3	6.2	350, 550	280 to 700	20HTSSOP	PG, EN, SoftStart, SYNC, RT, Int. Comp.
TPS54317	3 to 6	0.9 to 3.3	3	6.2	-	280 to 1600	24QFN	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
TPS54610	3 to 6	0.9 to 4.5	6	11	350, 550	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
<u>TPS5461x</u>	3 to 6	0.9, 1.2, 1.8, 2.5, 3.3	6	11	350, 550	280 to 700	28HTSSOP	PG, EN, SoftStart, RT, Int. Comp.
TPS54810	4 to 6	0.9 to 3.3	8	11	350, 550	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
<u>TPS54910</u>	3 to 4	0.9 to 2.5	9	11	350, 550	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.
<u>TPS54010</u>	2.2 to 4	0.9 to 2.5	14	13	350, 550	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Split Rail, Ext. Comp.
DDR Memory	(Active Bus	Terminatio	n), Syno	hronous	Buck			
TPS54372	3 to 6	0.2 to 4.5	3	6.2	350	280 to 700	20HTSSOP	PG, EN, RT, REFIN, Ext. Comp.
TPS54672	3 to 6	0.2 to 4.5	6	11	350	280 to 700	28HTSSOP	PG, EN, RT, REFIN, Ext. Comp.
TPS54872	4 to 6	0.2 to 3.3	8	11	350	280 to 700	28HTSSOP	PG, EN, RT, REFIN, Ext. Comp.
TPS54972	3 to 4	0.2 to 2.5	9	11	350	280 to 700	20HTSSOP	PG, EN, RT, REFIN, Ext. Comp.



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SWIFT Products (continued)									
PART	V	N		L (T)(m)	SWITCHING FREQUENCY				
NUMBER	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>оUT</sub> (А)	l <sub>q</sub> (Typ) (mA)	FIXED (kHz)	ADJUSTABLE (kHz)	PACKAGE	FEATURES	
Sequencing,	Synchronou	IS Buck							
<u>TPS54380</u>	3 to 6	0.9 to 4.5	3	6.2	350	280 to 700	20HTSSOP	PG, EN, RT, TRACKIN, Ext. Comp.	
TPS54680	3 to 6	0.9 to 4.5	6	11	350	280 to 700	28HTSSOP	PG, EN, RT, TRACKIN, Ext. Comp.	
<u>TPS54880</u>	4 to 6	0.9 to 3.3	8	11	350	280 to 700	28HTSSOP	PG, EN, RT, TRACKIN, Ext. Comp.	
<u>TPS54980</u>	3 to 4	0.9 to 2.5	9	11	350	280 to 700	28HTSSOP	PG, EN, RT, TRACKIN, Ext. Comp.	
Pre Bias, Syn	chronous B	uck							
TPS54073	2.2 to 4	0.9 to 2.5	14	13	350, 550	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.	
TPS54373	3 to 6	0.9 to 3.3	3	6.2	350, 550	280 to 700	20HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.	
TPS54377	3 to 6	0.9 to 3.3	3	6.2	-	280 to 1600	24QFN	PG, EN, SYNC, SoftStart, RT, Ext. Comp.	
<u>TPS54673</u>	3 to 6	0.9 to 4.5	6	11	350, 550	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.	
<u>TPS54873</u>	4 to 6	0.9 to 3.3	8	11	350, 550	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.	
<u>TPS54973</u>	3 to 4	0.9 to 2.5	9	11	350, 550	280 to 700	28HTSSOP	PG, EN, SYNC, SoftStart, RT, Ext. Comp.	

## Glossary

NAME	DEFINITION				
PG	Power Good pin				
EN	Enable pin				
SYNC	Sychronization 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				
Split Rail	Separate power and control voltage inputs				
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)				

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