Featured Products

Simplifies isolated power supply configuration

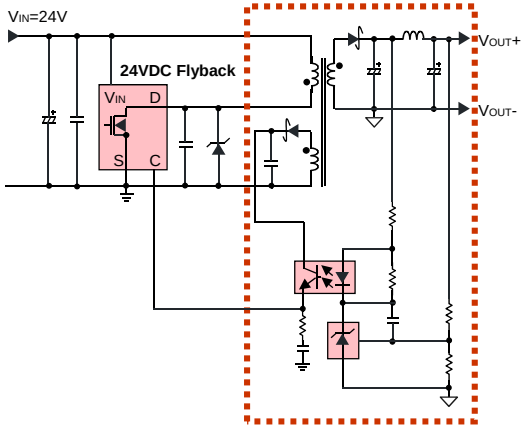
Isolated Flyback Converters

BD7Fxxx Series

- Original adaptive on-time control simplifies circuit design and contributes to greater miniaturization
- No need for a photocoupler or auxiliary winding
- Built-in phase compensation eliminates the need for compensation components
- Guaranteed long-term, stable supply-ideal for industrial equipment

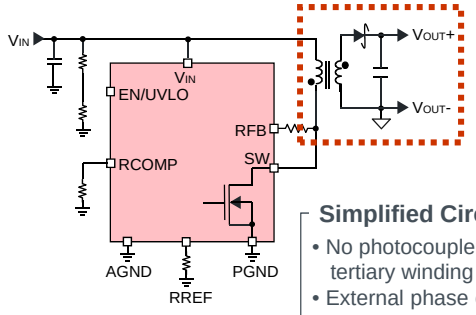
Fewer External Components

Conventional Flyback Converter Circuit



New controller design eliminates the need for a photocoupler or Auxiliary winding

NEW ROHM Flyback Converter Circuit Requires No Photocoupler or Auxiliary Winding

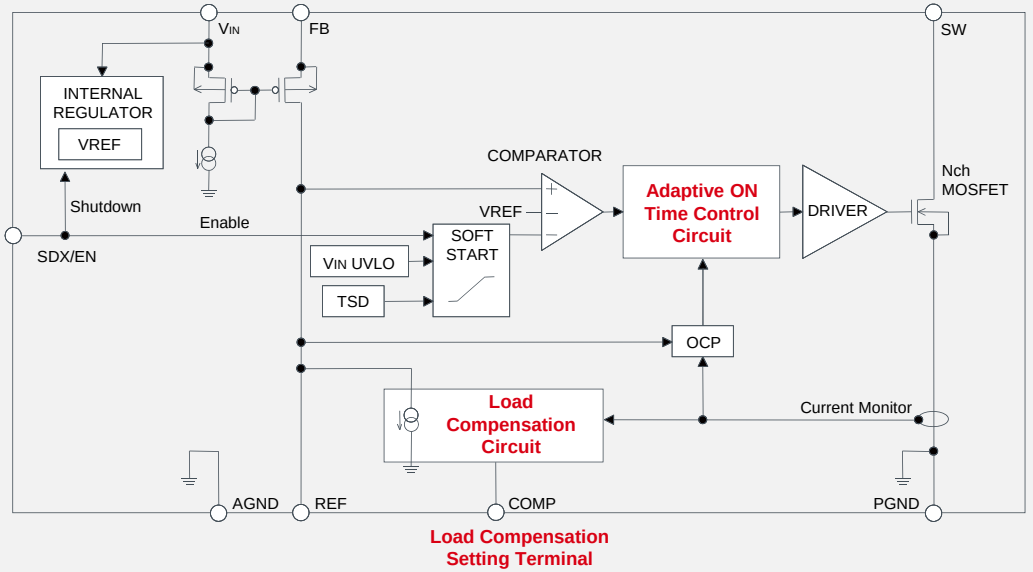


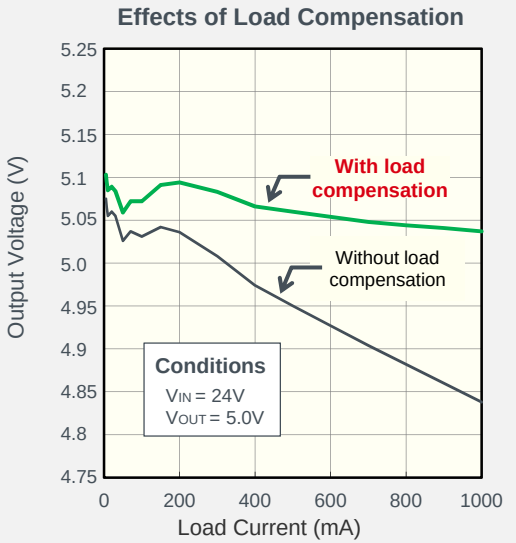
BD7F100EFJ

Simplified Circuit

- No photocoupler or transformer tertiary winding required
- External phase compensation unnecessary
- Built-in undervoltage lockout (UVLO), overcurrent protection (OCP), and thermal shutdown (TSD) circuits

Load Compensation Function





The built-in **load compensation function** corrects for output voltage drop based on the V_F characteristics of the secondary SBD (which is dependent on the load current)

Isolated DC/DC Converter IC Lineup

Part No.	Output Power (W)	Input Withstand Voltage (V)	Permissible Switch Current (A)	Input Voltage Range (V)	Switching Frequency (kHz)	Control Method	Functions						Package
							Enable	Soft Start	Light Load Efficiency	UVLO	Overcurrent Protection	Thermal Shutdown	
New BD7F100HFN-LB	1W (V_{IN}=5.0V) 5W (V_{IN}=24V)	45	1.25	3.0 to 40	400	Adaptive on-time	✓	✓	✓	✓	Return	Return	HSON8
New BD7F100EFJ-LB													HTSOP-J8
New BD7F200HFN-LB	10W (V_{IN}=24V)	45	2.75	8.0 to 40	400	Adaptive on-time	✓	✓	✓	✓	Return	Return	HSON8
New BD7F200EFJ-LB													HTSOP-J8
☆ BD7J100HFN-LB	5W (V_{IN}=48V)	80	0.65	6.0 to 80	400	Adaptive on-time	✓	✓	✓	✓	Return	Return	HSON8
☆ BD7J100EFJ-LB													HTSOP-J8

☆ Under Development