

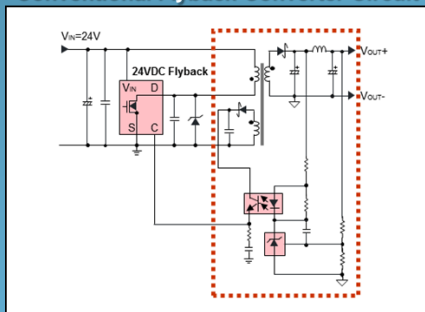
# BD7F Series Isolated Flyback Converters

## Simplifies isolated power supply configuration



- High-speed load response via adaptive on-time control
- Automatic light load mode ensures high efficiency across all load regions
- Eliminates the need for parts that cross the isolation boundary, improving functional safety
- Limited life components are not required, enabling long-term operation
- Supports multi-output configuration with superior cross-regulation

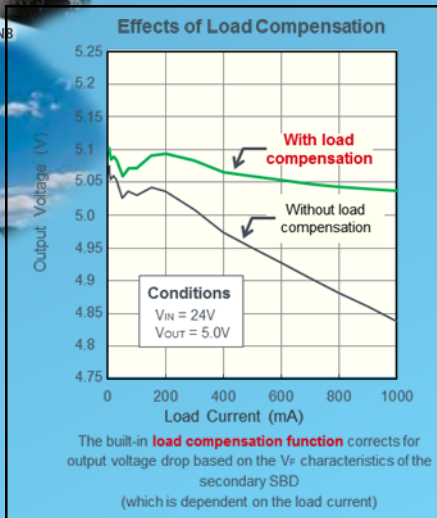
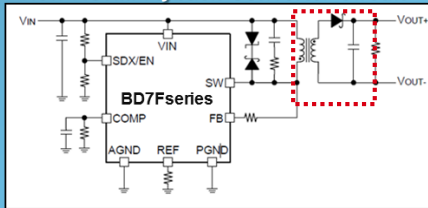
Conventional Flyback Converter Circuit



New controller design eliminates the need for an optocoupler or Auxiliary winding



New ROHM Flyback Converter Circuit



Part No.	Output Power	Input Voltage Maximum Rating (V)	Switch Current Limit (A)	Input Voltage Range (V)	Switching Frequency (kHz)	Control Mode	Features						Operating Junction Temperature Range (°C)	Package
							Enable	Soft Start	Efficient Light Load Mode	UVLO	Over-Current Protection	Thermal Protection		
BD7F100HFN-LB	1W (Vin = 5V)	45	1.25	3.0 to 40	400	Adaptive on-time	✓	✓	✓	✓	✓	✓	-40 to +125	HS0N8
BD7F100EFJ-LB	5W (Vin = 24V)													
BD7F200HFN-LB	2W (Vin = 5V)	45	2.75	3.0 to 40	400	Adaptive on-time	✓	✓	✓	✓	✓	✓	-40 to +125	HS0N8
BD7F200EFJN-LB	10W (Vin = 24V)													
☆BD7J100HFN-LB	5W (Vin = 48V)	100	1.00	6.0 to 80	400	Adaptive on-time	✓	✓	✓	✓	✓	✓	-40 to +125	HS0N8
☆BD7J100EFJ-LB														