

SECO-LVDCDC3064-IGBT-GEVB: 6 - 18 Vdc Input Isolated IGBT Gate Driver Supply +15 V / -7.5 V / 7.5 V with Automotive Qualified NCV3064 Controller

The SECO-LVDCDC-3064-IGBT-GEVB is an isolated supply for IGBT drivers, providing the necessary stable voltage rails -7.5 V / 15 V for an efficient switching – as well as an additional 7.5 V rail – over a wide input voltage range (6 Vdc to 18 Vdc). The converter is implemented as a primary side regulated flyback, with the feedback loop signal (1.25 V) realized via an auxiliary winding regulated at 5 V and a voltage divider. The design leverages the several merits of the NCV3064



regulator, enabling a low component count, compact and robust design. Among the features of this converter stand out – e.g. an internal temperature compensated reference, a controlled duty cycle oscillator with an active current limit circuit, driver and high current output switch. The board is realized with Automotive qualified parts and is pin compatible with commercial IGBT DC/DC supplies, provisioning a ready to use plug-in solutions for power applications.

Evaluation/Development Tool Information					
Product	Status	Compliance	Short Description	Parts Used	Action
SECO-LVDCDC3064-IGBT-GEVB	Active	Pb-free	6 - 18 Vdc Input Isolated IGBT Gate Driver Supply +15 V / -7.5 V / 7.5 V with Automotive Qualified NCV3064 Controller	NCV3064DR2G	Buy

Technical Documents			
Type	Document Title	Document ID/Size	Rev
Video	Isolated IGBT Gate Driver Supply with AEC-Q101 Qualified NCV3064 Controller	WVD17469/D	
Eval Board: Manual	6 - 18 Vdc Input Isolated IGBT Gate Driver Supply +15 V / -7.5 V / 7.5 V with Automotive Qualified NCV3064 Controller Evaluation Board User's Manual	EVBUM2736/D - 2873 KB	2
Eval Board:	SECO-LVDCDC3064-IGBT-GEVB Gerber Layout Files (Zip Format)	SECO-LVDCDC3064-IGBT-GEVB_GERBER -	0





BOM		- 133 KB	
Eval Board: Test Procedure	SECO-LVDCDC3064-IGBT-GEVB Test Procedure	SECO-LVDCDC3064-IGBT-GEVB_TEST_PROCEDURE - 101 KB	0
Eval Board: Schematic	SECO-LVDCDC3064-IGBT-GEVB Schematic	SECO-LVDCDC3064-IGBT-GEVB_SCHEMATIC - 165 KB	0
Eval Board: Gerber	SECO-LVDCDC3064-IGBT-GEVB Altium Project Files	SECO-LVDCDC3064-IGBT-GEVB_ALTIUM_FILES - 1936 KB	0

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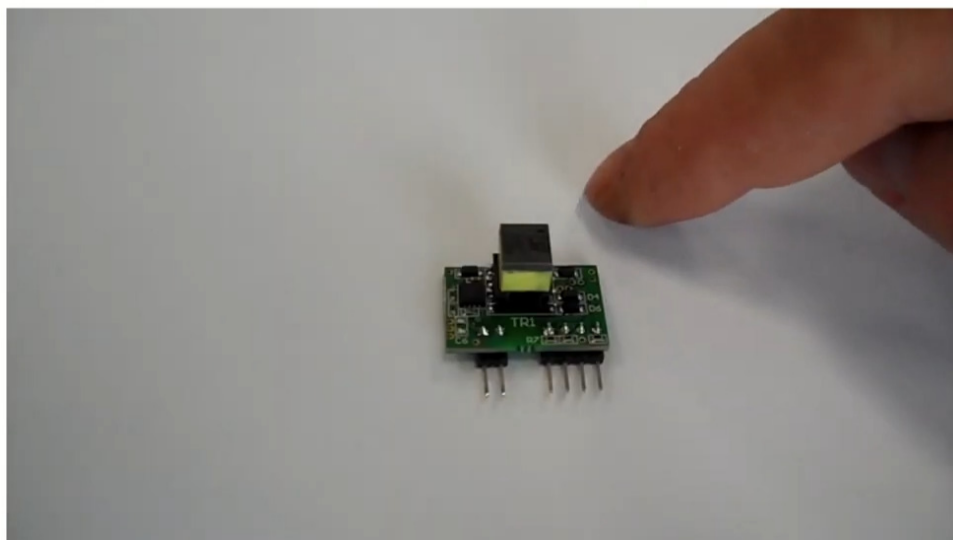
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Isolated IGBT Gate Driver Supply with AEC-Q101 Qualified NCV3064 Controller

Automotive gate drive isolated supply
SECO-LVDCDC-3064-IGBT-GEVB



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