



OPTOCOUPLER

VO1263, LH1262

Optocouplers – MOSFET Drivers with Solid State Reliability

Photovoltaic Single-Component/Isolated MOSFET Driver Solutions



Vishay's isolated MOSFET drivers combine isolation, MOSFET driver circuitry, and a self-contained power source in one package, allowing designers to implement MOSFET solutions with as few as one single solid-state component. This reduces cost, required PCB footprint, as well as greatly decreasing design cycle time. An additional benefit afforded by Vishay's MOSFET driver products is their floating gate driver architecture. Unlike conventional solid-state MOSFET drivers, not only do Vishay's photovoltaic MOSFET drivers not require an external power supply, but they do not require that the low side of the driver's output be referenced to the driven circuit's reference ground, giving designers unprecedented economy and flexibility.

KEY BENEFITS

- Solid-state reliability
- High isolation
- Safety agency certification
- Floating output drive
- No need for external V_{CC}

APPLICATIONS

- Isolated HV, high-current, low- R_{ON} SSRs
- Isolated solenoid drivers
- TEC cooler drives
- MOSFET heater drives
- Stepper motor drives

RESOURCES

- Datasheet: VO1263 - <http://www.vishay.com/doc?284639>, LH1262 - <http://www.vishay.com/doc?83802>
- MOSFET driver application note: <http://www.vishay.com/doc?81225>
- Optocoupler product portfolio: <http://www.vishay.com/optocouplers/>
- Technical support: optocoupleranswers@vishay.com
- Sales contacts: <http://www.vishay.com/doc?99914>

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

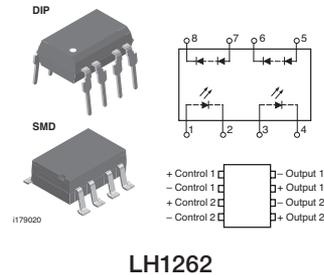
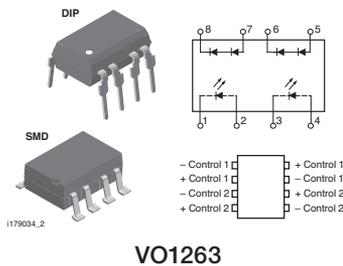


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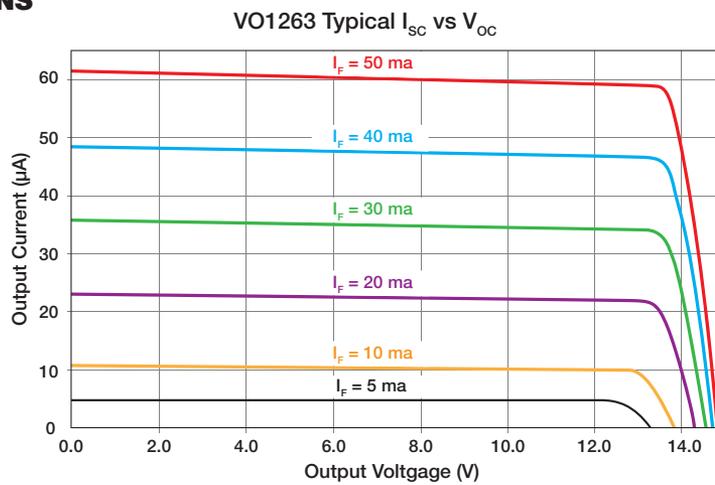
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PACKAGE/PIN CONFIGURATIONS

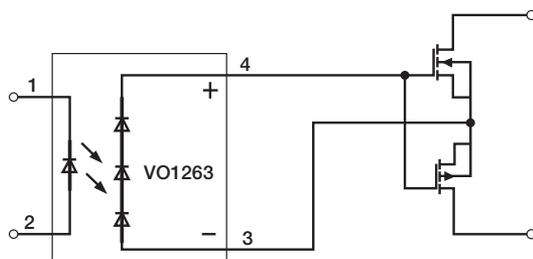


KEY SPECIFICATIONS

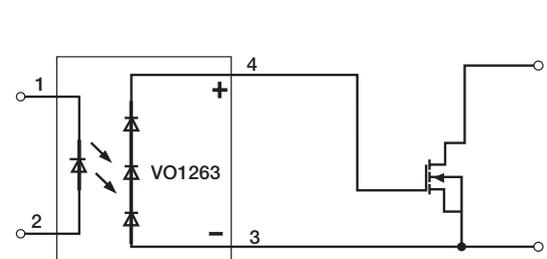


KEY SPECIFICATIONS						
PARAMETER	TEST CONDITIONS	SYMBOL	MIN	TYP.	MAX	UNITS
Output current	VO1263, $I_F = 10\text{ mA}$	I_{SC}	7.5	9.8		μA
Output Voltage	VO1263, $I_F = 10\text{ mA}$	V_{OC}	10	14		V
Isolation Test Voltage	VO1263/LH 1262 $t = 1\text{ sec}$	V_{ISO}			5300	V
LED Forward Voltage	VO1263, $I_F = 10\text{ mA}$	V_F	1.2	1.3	1.6	V

TYPICAL APPLICATIONS



Bidirectional MOSFET Driver Application



Single MOSFET Driver Application