



PHOTOVOLTAIC MOSFET DRIVER

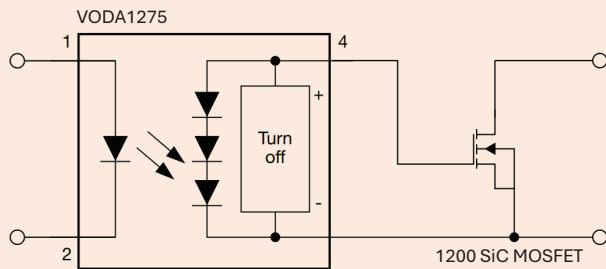
SELECTION GUIDE

WHAT IS A PHOTOVOLTAIC MOSFET DRIVER?

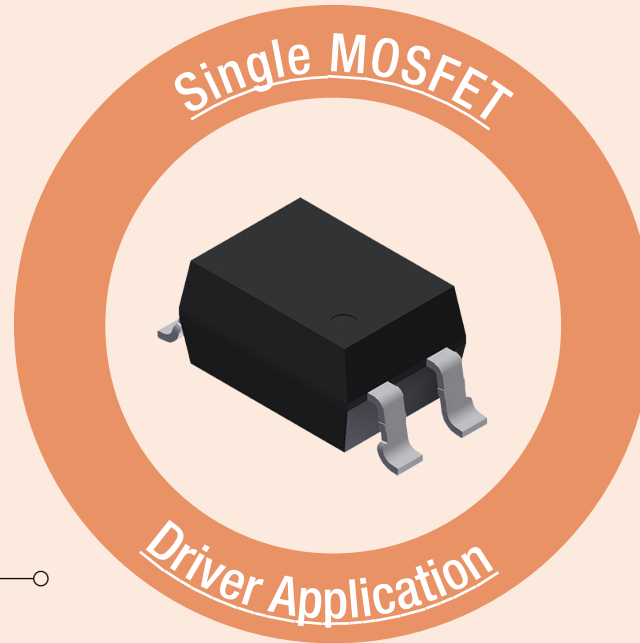
➔ A standalone MOSFET driver consisting of:

- An emitter to generate infrared radiation
- A photodiode array that generates voltage and current required to drive the gate of the MOSFET, and an optical path creating an isolation barrier

800 V - PRE-CHARGE RELAY AND ACTIVE DISCHARGE



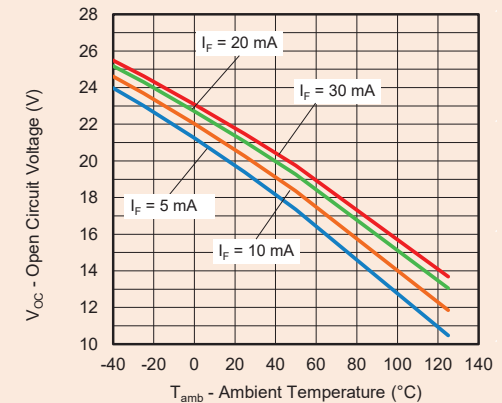
800 V Pre-Charge / Discharge Relay



BENEFITS

- Standalone part requiring no additional isolated power source
- Flexibility to create a custom opto relay (switch)
- Microcontroller-compatible
- Allows usage as tiny power source

OPEN CIRCUIT VOLTAGE VS. AMBIENT TEMPERATURE



Part Name	Package	Open Circuit Output Voltage V_{OC} (V)	Short Circuit Output Current I_{SC} (μA)	Max. Withstand Isolation Voltage V_{ISO} (V_{RMS})	Max. Repetitive Isolation Voltage V_{IORM} (V_{peak})	Comparative Tracking Index CTI (V)	Qualification
V01263	SMD-8	14.7	15	5300	890	175	Industrial
VOM1271	SOP-4	8.4	15	3750	707	175	Industrial
VOMDA1271	SOP-4	8.5	15	3750	707	175	Automotive
VODA1275	SMD-4	20	20	5300	1260	600	Automotive