

OPTOCOUPLERS

VO4154 / 4156 / 4157 / 4158 VO4254 / 4256 / 4257 / 4258



A New Family of Phototriacs with a dV/dt of 5 kV/µs

FEATURES

- dV/dt of 5 kV/µs
- Trigger current (I_{FT}) of 1.6, 2.0, and 3.0 mA
- Zero-crossing and non-zero-crossing function
- Blocking voltage (V_{DRM}) up to 800 V
- Ambient operating temperature from -40 °C to +100 °C

BENEFITS

- Meets IEC1000-4-4 transient requirements
- Complements Vishay's existing 10 kV/µs phototriac family
- Low trigger current enables direct interface with microcontroller output and digital logic
- High dV/dt performance eliminates/reduces snubber circuit
- Compliant in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



VO4154 / 4156 / 4157 / 4158 / 4254 / 4256 / 4257 / 4258

SAFETY

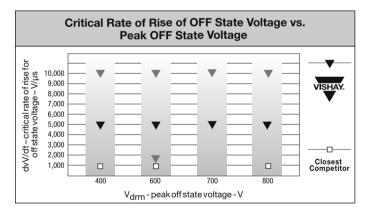
- Reinforced insulation rating per IEC60950 2.10.5.1
- IEC60747-5-2 (VDE0884) available with option 1
- Certified by key international safety regulatory agencies such as UL, CUL, and VDE
- Isolation test voltage 5300 V_{RMS}

APPLICATIONS

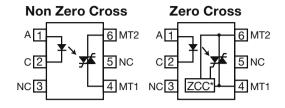
- Solid state relays
- · AC motor drives / triac drive
- · Temperature / lighting controls
- · Solenoid / valve controls
- Switching power supplies

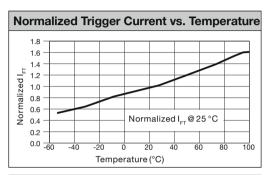
INDUSTRY LEADING IFT PERFORMANCE

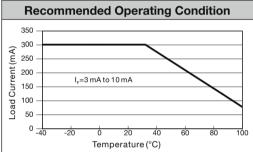
The new VO phototriac series offers the industry's lowest triggering current of 1.6 mA in combination with a new class of 5 kV/µs dV/dt performance. The low trigger current enables designers to directly interface with micro controllers and digital circuits. This new family complements Vishay's own industry leading 10 kV/µs dV/dt family of phototriacs.

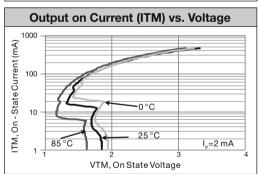


The DIP-6 package has multiple options that can be added from a variety of lead forms to the IEC60747-5-2 (VDE0884) electrical test. For detailed ordering information, please visit the Vishay website www.vishay.com/optocouplers and look for the options information document.









I _{FT} , Trigger Current	Crossing Type	400 V	600 V	700 V	800 V
1.6 mA	ZC	VO4154D	VO4156D	VO4157D	VO4158D
	NZC	VO4254D	VO4256D	VO4257D	VO4258D
2 mA	ZC	VO4254H	VO4256H	VO4157H	VO4158H
	NZC	VO4254H	VO4256H	VO4257H	VO4258H
3 mA	ZC	VO4154M	VO4156M	VO4157M	VO4158M
	NZC	VO4254M	VO4256M	VO4257M	VO4258M

NOTICE Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to sflenses for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right. The products shown herein are not designed for use in medical, life-saving, or life-sustianing applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.