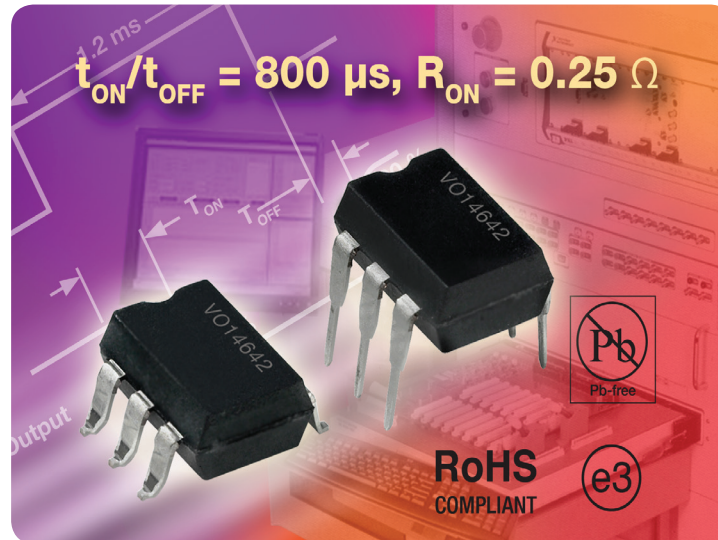




OPTOCOUPLEDERS

VO14642 Solid State Relays

High-Speed SSRs Target Test and Measurement Applications



FEATURES

- Maximum t_{ON} , t_{OFF} : 800 μ S
- Maximum R_{ON} : 0.25 Ω
- Load current: 1 A
- Load voltage: 60 V
- Trigger current (I_T): 1 mA
- Encased in a DIP-6 package
- Pure tin leads

BENEFITS

- Maximum t_{ON} , t_{OFF} of 800 μ s reduces time required for powering up the diagnostic routine in test and measurement applications
- Maximum R_{ON} of 0.25 Ω is optimal for applications requiring low power consumption and heat dissipation
- Low input trigger current allows direct interface with digital logic
- Crosses to NEC PS710A and Clare LCA710
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

RESOURCES

- Datasheet: <http://www.vishay.com/doc?81646>
- Solid State Relays Portfolio: <http://www.vishay.com/solid-state-relays/>
- For technical questions contact: optocouplersanswer@vishay.com

Optocouplers - High-Speed SSR's Reduce Power-up Time

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



OPTOCOUPLEDERS

VO14642 Solid State Relays

Optocouplers - High-Speed SSR's Reduce Power-up Time

APPLICATIONS

- Automated test equipment
- Board testers
- Medical and instrumentation
- Industrial Controls

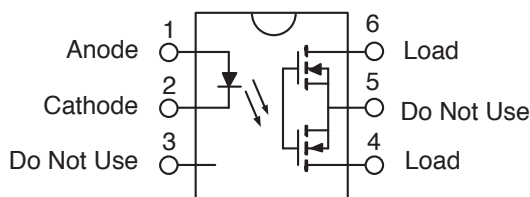
SAFETY

- Certified by key international safety regulatory agencies such as UL, CUL, and VDE

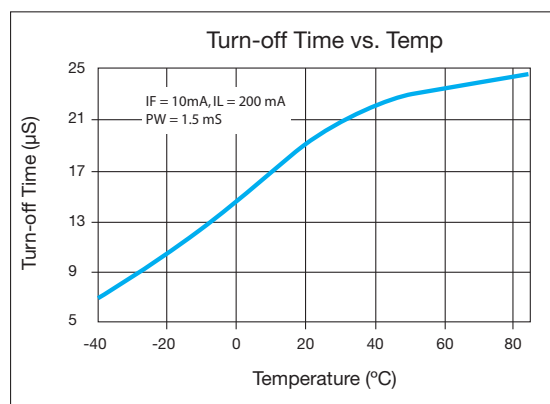
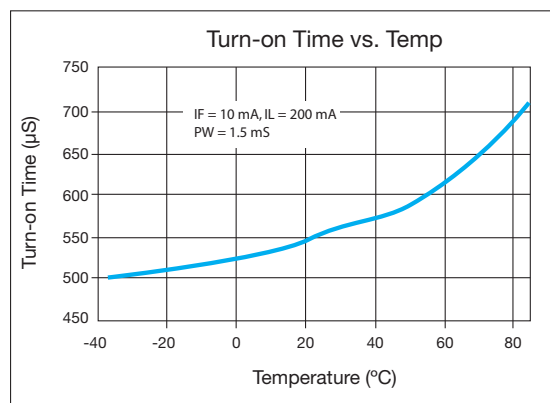
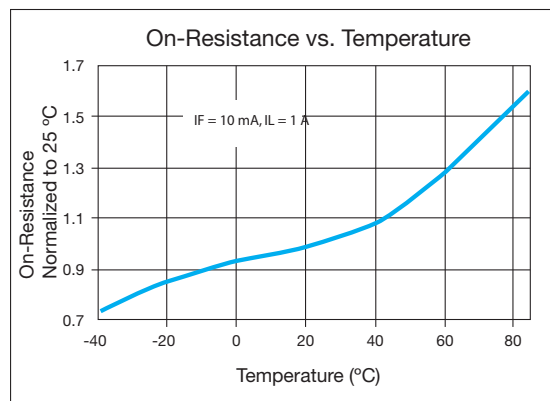
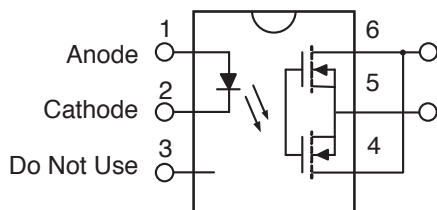
The VO14642A is the highest-speed SSR in its class. A fast T_{ON}/T_{OFF} of 800 μs maximum facilitates test and measurement applications while the low R_{ON} of 0.25 Ω helps in applications needing low power consumption and heat dissipation.

The VO14642A can be configured for AC/DC or DC-only operation. In the AC/DC configuration the maximum R_{ON} is 0.25 Ω and the maximum peak load current is 3.6 A. In the DC-only configuration the maximum R_{ON} is 0.07 Ω and the maximum peak load current is 2 A.

AC/DC Configuration



DC Only Configuration



Part Number	Package	Packing	R_{ON} (Ω)	I_{LOAD} (A)
VO14642AT	DIP-6	Tubes	0.25	2
VO14642AABTR	DIP-6	Tape & Reel	0.25	2