

Phototriac chip OPTOTRIAC 269-03

Description

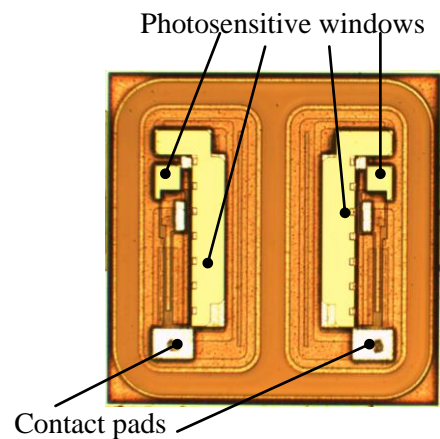
Zero voltage crossing phototriac chip OPTOTRIAC 269-03 is designed to be used as phototriac receiver to drive power triacs in phototriacs and to switch AC-circuits in optoelectronic relays` circuits of consumer-oriented industrial automation.

Features

- Module size 1.2 x 1.2 mm (including scribe line)
- Scribe line width 60 μm
- Contact pads` size 0.108 x 0.102 mm
- Chip thickness 0.30 ± 0.02 mm
- Top contacts` material – AlSi,
Bottom contacts` material – Si

Absolute maximum ratings

Parameter, unit	
Maximum Switching Voltage	600 V
Storage Temperature	-65°C to 150°C
Operating Junction Temperature	-55°C to 125°C

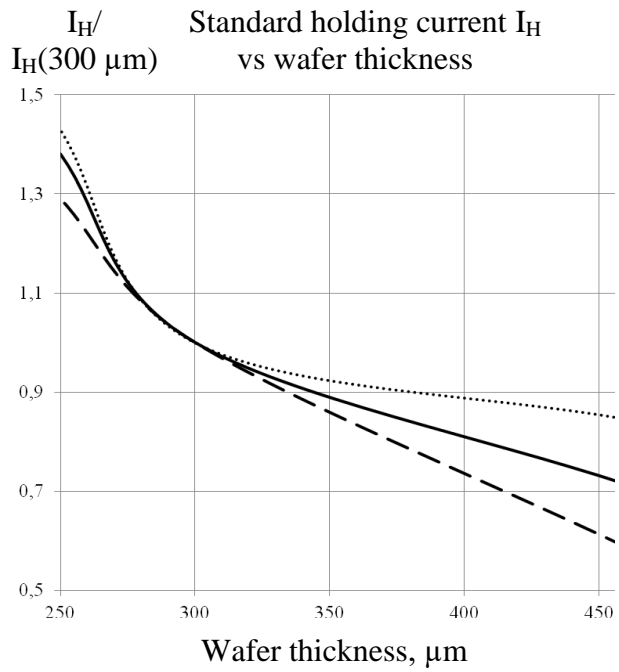


Electrical characteristics (T = 25 °C)

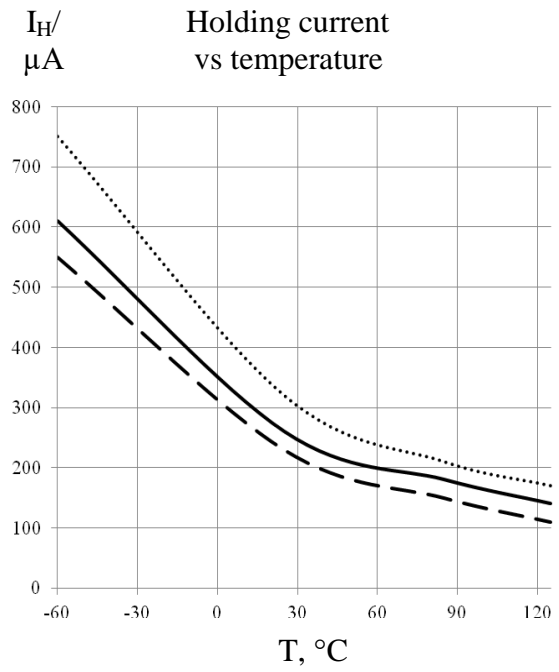
Parameter	Symbol	Min	Typ	Max	Notes
Peak On-State Voltage, V ($I_{TM} = 100$ mA)	V_{TM}		2.4	3.0	1
Inhibit Voltage, V	V_{INH}		7.0	20.0	1
Peak Off-State Current, μA ($V_{DRM} = 630$ V)	I_{DRM1}		0.02	0.1	2
Peak Off-State Current while Lighting, μA ($V_{DRM} = \pm 600$ V)	I_{DRM2}			400	1
Holding current, μA	I_H	200	350	500	1,3,4
Critical Rate of Rise Off-State Voltage, V/ μs ($V_{in} = 600$ V)	dv/dt	1000	1200		5

Notes:

- 1 – Light source with peak wavelength $\lambda = 890 \pm 50$ nm that provides surface irradiance $E_e = 100$ mW/cm² is used.
- 2 – No light.
- 3 – Checked at 5 points on the wafer.
- 4 – Holding current is specified for the wafers with the thickness $0,30 \pm 0.02$ mm.
The dependence of the holding current I_H on the wafer thickness is specified at page 2.
The dependence of the holding current I_H on the temperature is specified at page 2.
- 5 – Measured in the packaged device.



..... maximum
 ————— average
 - - - - - minimum



..... maximum
 ————— average
 - - - - - minimum