

Phototriac chip OPTOTRIAC 269-03

Description

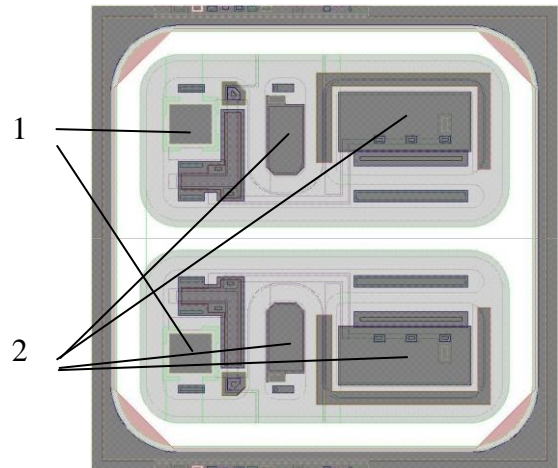
Zero voltage crossing-phototriac chip OPTOTRIAC 269-03 is designed to be used as phototriac receiver to drive power triacs in phototriacs and to switch AC-circuits in optoelectronic relays` circuits of consumer-oriented industrial automation.

Features

- Chip size 1.2 x 1.2 mm
- Contact pads` size 0.108 x 0.102 mm
- Chip thickness 0.36 ± 0.02 mm
- Metallization: top – AlSi, bottom – Si

Absolute maximum ratings

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



- 1 – Contact pads
2 – Photo receiving elements

Electrical characteristics (T = 25 °C)

Parameter	Symbol	Min	Typ	Max	Notes
Peak On-State Voltage, V ($I_{TM} = 100$ mA)	V_{TM}	1.0	1.9	2.3	1
Inhibit Voltage, V	V_{INH}		7	20	1
Peak Off-State Current, μ A ($V_{DRM} = 660$ V)	I_{DRM1}			0.1	2
Peak Off-State Current while Lighting, μ A ($V_{DRM} = \pm 600$ V)	I_{DRM2}			400	1
Holding current, μ A	I_H	200	350	500	1,3
Critical Rate of Rise Off-State Voltage, V/ μ s ($V_{in} = 600$ V)	dv/dt	1000	1200		4

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 – Is checked at 5 points on a wafer surface.
- 4 – Measured in the packaged device.