



Product Change Notification



Product Group: Opto Sensors & IRDC 08-DEC-2017 / PCN OSI-985-2017 Rev. 0

TITLE: VSMY2940 (G/RG) / VSMY2943 (G/RG/SL) : Change in Chip

DESCRIPTION OF CHANGE: A new chip generation will be introduced in VSMY294* dome lens products. It has an approximately 20% increased radiant intensity, while the forward voltage is slightly reduced. This allows for an overall reduction in power consumption.
A detailed comparison of the performance is shown in the attached file, named "PCN OSI-985-2017 - change description.pdf".

CLASSIFICATION OF CHANGE: Direct Materials (Major)

REASON FOR CHANGE: Introduction of new chip generation with improved electro-optical performance.

EXPECTED INFLUENCE ON QUALITY RELIABILITY / PERFORMANCE: No influence on quality and reliability expected. Performance increase with about 20% higher radiant intensity and slightly lower forward voltage.

PRODUCT CATEGORY: Infrared Emitters

PART NUMBERS / SERIES / FAMILIES AFFECTED:

VSMY2940G
VSMY2940RG
VSMY2943G
VSMY2943RG
VSMY2943SL

VISHAY BRAND(s): VISHAY SEMICONDUCTORS

TIME SCHEDULE:

Annotations about time schedule:

Start Shipment Date: 01-APR-2018

SAMPLES AVAILABLE BEGINNING: 09-DEC-2017

We need samples for evaluation: Yes No
If Yes return this form to contact information below.

PRODUCT IDENTIFICATION: Datecode

QUALIFICATION DATA: Qualification data is available on request.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before: 28-FEB-2018 or as specified by contract.

ISSUED BY:

PM: Andreas Puetz, Product Marketing Opto

Phone: +49-7131-67-2662

Email: andreas.puetz@vishay.com

For further information, please contact your regional Vishay office.

CONTACT INFORMATION:

VISHAY Intertechnology Asia Pte. Ltd.
Regional Marketing Asia/Japan
25 Tampines Street 92
Keppel Building # 02-00
Singapore 528877
Phone: +65-6788-6668
Fax: +65-6788-3383

VISHAY Intertechnologies, Inc.
Regional Marketing The Americas - Opto
2201 Laurelwood Road
M/S 55
Santa Clara, CA 95014
USA
Phone: +1-408-567-8317
Fax: +1-408-567-8371

VISHAY Semiconductor GmbH
Regional Marketing Europe Opto
Theresienstr. 2
D-74025 Heilbronn
Germany
Phone: +49-7131-672133
Fax: +49-7131-673144



Product Change Notification



Product Group: Opto Sensors & IRDC 08-DEC-2017 / PCN OSI-985-2017 Rev. 0

Attached Part Number List:

Material List
PCN OSI-985-2017

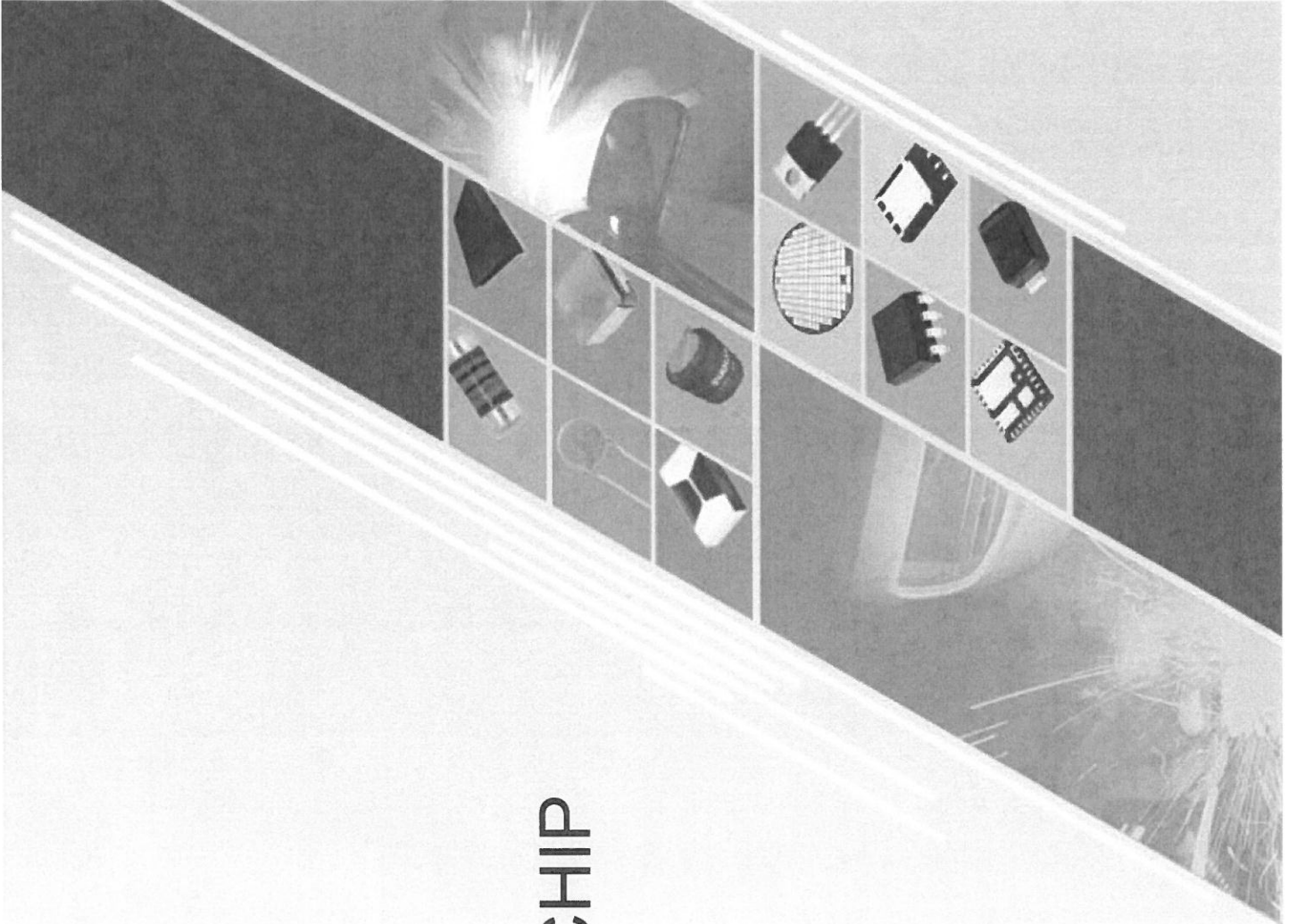
VSMY2940G
VSMY2940RG
VSMY2943G
VSMY2943RG
VSMY2943SL



VSMY294* : CHANGE IN CHIP

PCN OSI-985-2017

A WORLD OF
SOLUTIONS





DATASHEET CHANGES VSMY2940RG / VSMY2940G

After PCN

Absolute maximum ratings (Tamb = 25° C, unless otherwise specified)

Parameter	Test condition	Symbol	Value	Unit
Power dissipation		P _v	180	mW

Before PCN

Symbol	Value	Unit
P _v	190	mW

Basic Characteristics

Parameter	Test condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I _F = 100 mA, t _p = 20 ms	V _F		1.4	1.8	V
	I _F = 1 A, t _p = 100 μs	V _F		2.5		V
Temperature Coefficient of V _F	I _F = 100 mA			-0.7		mV/K
Junction Capacitance	V _R = 0 V, f = 1 MHz, E = 0			55		pF
Radiant Intensity	I _F = 100 mA, t _p = 20 ms	I _e	75	145	215	mW/sr
	I _F = 1 A, t _p = 100 μs	I _e		1000		mW/sr
Spectral bandwidth	I _F = 100 mA	Δλ		50		nm

Symbol	Min.	Typ.	Max.	Unit
V _F		1.55	1.9	V
V _F		2.65		V
		-2.1		mV/K
		125		pF
I _e	65	120	195	mW/sr
I _e		880		mW/sr
Δλ		40		nm



DATASHEET CHANGES

VSMY2943RG / VSMY2943G / VSMY2943SL

After PCN

Absolute maximum ratings (T_{amb} = 25° C, unless otherwise specified)

Parameter	Test condition	Symbol	Value	Unit
Power dissipation		P _v	180	mW

Before PCN

Symbol	Value	Unit
P _v	200	mW

Basic Characteristics

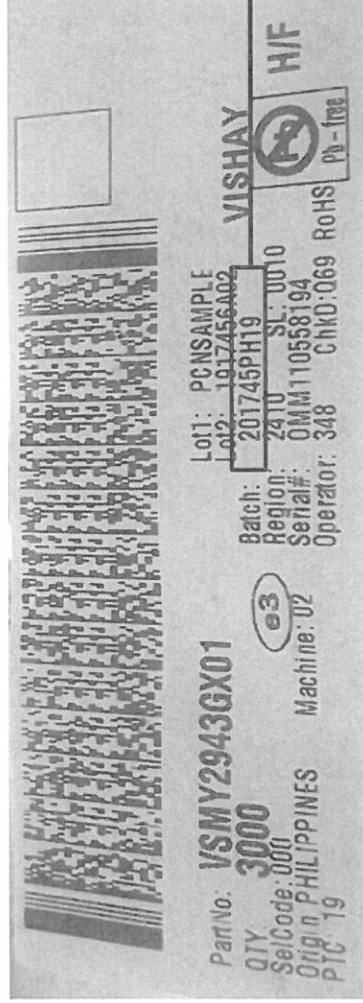
Parameter	Test condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I _F = 100 mA, t _p = 20 ms	V _F		1.4	1.8	V
	I _F = 1 A, t _p = 100 μs	V _F		2.5		V
Temperature Coefficient of V _F	I _F = 100 mA			-0.7		mV/K
Junction Capacitance	V _R = 0 V, f = 1 MHz, E = 0			55		pF
Radiant Intensity	I _F = 100 mA, t _p = 20 ms	I _e	27	50	75	mW/sr
	I _F = 1 A, t _p = 100 μs	I _e		350		mW/sr
Spectral bandwidth	I _F = 100 mA	Δλ		50		nm

Symbol	Min.	Typ.	Max.	Unit
V _F		1.55	2.0	V
V _F		2.65		V
		-2.1		mV/K
		125		pF
I _e	20	35	65	mW/sr
I _e		300		mW/sr
Δλ		40		nm



TIMELINE & CONTACT

- Start shipment date: week 14 / 2018
- The change is indicated by the date code on the label.
- Sample label:



- Contact:
 - Andreas Puetz, PhD
Product Marketing Sensors
andreas.puetz@vishay.com