



Product Change Notification



Product Group: Opto Sensors & IRDC 13-AUG-2018 / PCN OSI-1005-2017 Rev. 0

TITLE: VSMY2850 (G/RG) / VSMY2853 (G/RG/SL) : Change in Chip

DESCRIPTION OF CHANGE: A new chip generation will be introduced in VSMY285* 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-1005-2017 - 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:

VSMY2850G
VSMY2850G1
VSMY2850RG
VSMY2853G
VSMY2853RG
VSMY2853SL
VSMY2853SLS

VISHAY BRAND(s): VISHAY SEMICONDUCTORS

TIME SCHEDULE:

Annotations about time schedule:

Start Shipment Date: 01-JAN-2019

SAMPLES AVAILABLE BEGINNING: 01-AUG-2018

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

PRODUCT IDENTIFICATION: Date Code

QUALIFICATION DATA: available on request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before: 31-OCT-2018 or as specified by contract.

ISSUED BY:

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For further Information, please contact your regional Vishay office.

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Product Change Notification



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Attached Part Number List:

Material List
PCN OSI-1005-2017

VSMY2850G
VSMY2850G1
VSMY2850RG
VSMY2850RG1
VSMY2853G
VSMY2853RG
VSMY2853SL
VSMY2853SLS



VSMY285* : CHANGE IN CHIP

PCN OSI-1005-2017

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DATASHEET CHANGES VSMY2850RG / VSMY2850G

After PCN

Basic Characteristics						
Parameter	Test condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	$I_F = 100 \text{ mA}, t_p = 20 \text{ ms}$	V_F		1.6	1.9	V
	$I_F = 1 \text{ A}, t_p = 100 \mu\text{s}$	V_F		2.8		V
Temperature Coefficient of V_F	$I_F = 100 \text{ mA}$	TK_{V_F}		-1.5		mV/K
Junction Capacitance	$V_R = 0 \text{ V}, f = 1 \text{ MHz}, E = 0$			50		pF
Radiant Intensity	$I_F = 100 \text{ mA}, t_p = 20 \text{ ms}$	I_e	70	125	210	mW/sr
	$I_F = 1 \text{ A}, t_p = 100 \mu\text{s}$	I_e		1000		mW/sr
Temperature Coefficient of radiant power	$I_F = 100 \text{ mA}$	TK_{ϕ_e}		-0.12		%/K

Before PCN

Symbol	Min.	Typ.	Max.	Unit
V_F		1.65	1.9	V
V_F		2.9		V
		-1.6		mV/K
		125		pF
I_e	50	100	150	mW/sr
I_e		850		mW/sr
TK_{ϕ_e}		-0.2		%/K



DATASHEET CHANGES

VSMY2853RG / VSMY2853G / VSMY2853SL

After PCN

Before PCN

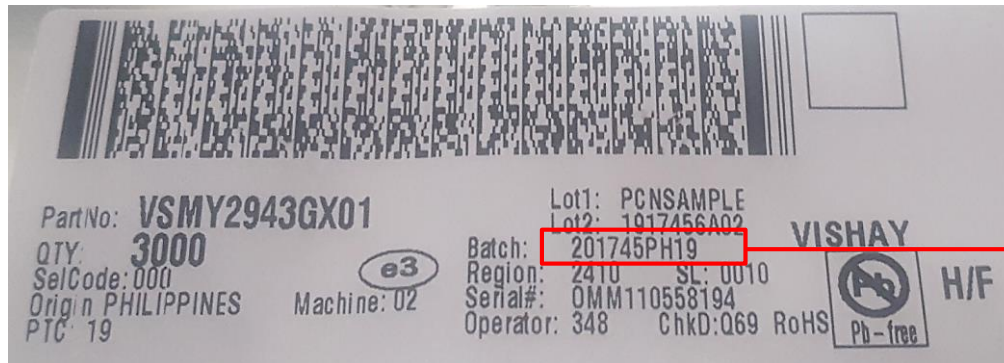
Basic Characteristics						
Parameter	Test condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	$I_F = 100 \text{ mA}, t_p = 20 \text{ ms}$	V_F		1.6	1.9	V
	$I_F = 1 \text{ A}, t_p = 100 \mu\text{s}$	V_F		2.8		V
Temperature Coefficient of V_F	$I_F = 1 \text{ mA}$	TK_{VF}		-		mV/K
	$I_F = 10 \text{ mA}$	TK_{VF}		-		mV/K
	$I_F = 100 \text{ mA}$	TK_{VF}		-1.5		mV/K
Junction Capacitance	$V_R = 0 \text{ V}, f = 1 \text{ MHz}, E = 0$			50		pF
Radiant Intensity	$I_F = 100 \text{ mA}, t_p = 20 \text{ ms}$	I_e	27	50	75	mW/sr
	$I_F = 1 \text{ A}, t_p = 100 \mu\text{s}$	I_e		350		mW/sr
Temperature Coefficient of radiant power	$I_F = 100 \text{ mA}$	TK_{ϕ_e}		-0.12		%/K

Symbol	Min.	Typ.	Max.	Unit
V_F		1.65	1.9	V
V_F		2.9		V
		-1.5		mV/K
		-1.3		mV/K
		-		mV/K
		125		pF
I_e	20	35	50	mW/sr
I_e		300		mW/sr
TK_{ϕ_e}		-0.35		%/K



TIMELINE & CONTACT

- Start shipment date: week 01 / 2019
- The change is indicated by the date code on the label.
- Sample label:



2017 = year
45 = week

- Contact:
 - Andreas Puetz, PhD
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