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Optocoupler: New Lead Frame Plating Layer, Alternative Infrared Emitter, and Standard 25 µm Wire Bond

For further information, please contact your regional Vishay office.

CONTACT INFORMATION

Americas

Jim Toal
2585 Junction Avenue
-
San Jose California United States 95134-1923
Phone: +1-408-567-8358
Fax: +1-408-240-5687
jim.toal@vishay.com

Europe

Boris Lazic
Theresienstr. 2
-
Heilbronn Germany 74072
Phone: +49-7131-7498-516
Fax: +49-7131-67-3144
boris.lazic@vishay.com

Asia

Jason Soon
25 Tampines Street 92
Keppel Building # 02-00
Singapore Singapore 528877
Phone: +65 6780 7879
Fax: +65 6780 7897
jason.soon@vishay.com

Description of Change:

Vishay Opto has made significant advancements in our in-house emitter technology, in our lead-frame plating processes, and in our use of 25 µm gold bond wire. These advancements result in improved reliability, expanded production capacity, and harmonized manufacturing processes.

1. Alternative Infrared Emitter - All the optocouplers associated with this PCN have been qualified to use our MOCVD in-house infrared emitter.
2. Lead-frame Plating Process - All DIL-4 (SFH6156, SFH615A, VO615A Opt. 5) and SSOP (SFH6916, TCMDxxxx, TCMTxxxx, VOS6xxB) optocouplers will take advantage of this additional plating layer on the lead-frame.
3. 25 µm Gold Bond Wire - All LSOP optocouplers (TCLT1xxxx, VOL6xxx) will migrate to the manufacturing standard 25 µm wire used for electrically bonding the emitter and phototransistor to the lead-frame.

A complete list of affected parts for each change is shown below.

Reason for Change: Bill of Material (Major). Qualification reports are available on request.

Expected Influence on Quality/Reliability/Performance:

There is no change in form, fit, or function. The datasheet minimum and maximum performance parameters will remain the same. As there is no change in the safety parameters, the existing UL, VDE, and other agency safety certifications remain valid.

Part Numbers/Series/Families Affected: Please see materials list on the succeeding page.

Vishay Brand(S): Vishay Semiconductors

Time Schedule:

Start Shipment Date: Mon Sep 25, 2023

Sample Availability: Samples are available upon request.

Product Identification: Product can be tracked by lot number.

Qualification Data: These changes have been rigorously qualified to meet Vishay's and industry standard qualifications.



Product Change Notification



Product Group: OPT/Mon Jul 24, 2023/PCN-OPT-1272-2023-REV-0

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This PCN is considered approved, without further notification, unless we receive specific customer concerns before Thu Sep 21, 2023 or as specified by contract.

Issued By: Lars Bayer, lars.bayer@vishay.com



Product Change Notification



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SFH6156-1	SFH6156-1T	SFH6156-1X001	SFH6156-1X001T	SFH6156-2
SFH6156-2T	SFH6156-2X001	SFH6156-2X001T	SFH6156-3	SFH6156-3041
SFH6156-3078	SFH6156-3133	SFH6156-3T	SFH6156-3T0	SFH6156-3X001
SFH6156-3X001T	SFH6156-3X001T1	SFH6156-4	SFH6156-4T	SFH6156-4X001T
SFH6156 E9063	SFH6156 E9069	SFH6156 E9101	SFH615A-3X008T	SFH615A-3X018
SFH615A-3X018T	SFH615A-4X008T	SFH615A-4X018T	SFH615AA	SFH615AA-X007
SFH615AGB-X009	SFH615AGB-X009T	SFH615AGR	SFH615AGR-X007T	SFH615AGR-X017
SFH615AGR-X017T	SFH615AY	SFH615AY-X008T	SFH615AY-X018T	SFH615AY-X019T
SFH6916	SFH6916T	SFH6916-X001	TCLD1000	TCLT1000
TCLT1001	TCLT1002	TCLT1003	TCLT1003-3035	TCLT1004
TCLT1005	TCLT1005-3109	TCLT1006	TCLT1007	TCLT1007-3118
TCLT1008	TCLT1009	TCLT1010	TCLT1011	TCLT1012
TCLT1013	TCLT1014	TCLT1014-0001	TCLT1014-4108	TCLT1015
TCLT1016	TCLT1017	TCLT1018	TCLT1019	TCLT1100
TCLT1102	TCLT1103	TCLT1104	TCLT1104-3119	TCLT1105
TCLT1106	TCLT1107	TCLT1108	TCLT1109	TCLT1110
TCLT1111	TCLT1112	TCLT1113	TCLT1114	TCLT1115
TCLT1116	TCLT1117	TCLT1118	TCLT1119	TCLT1600
TCMD1000	TCMD4000	TCMT1100	TCMT1101	TCMT1102
TCMT1103	TCMT1104	TCMT1105	TCMT1106	TCMT1107
TCMT1107T3	TCMT1108	TCMT1109	TCMT1110	TCMT1113
TCMT1116	TCMT1117	TCMT1118	TCMT1119	TCMT1600
TCMT1600-3087	TCMT1600T3	TCMT4100	TCMT4100T0	TCMT4106
TCMT4600	TCMT4600T0	TCMT4606	VO615A-2X056	VO615A-3X005
VO615A-3X056	VO615A-3X057T	VO615A-4X056	VO615A-4X058T	VO615A-4X059T
VOL617A-1T	VOL617A-1X001T	VOL617A-2T	VOL617A-2X001T	VOL617A-3126
VOL617A-3T	VOL617A-3X001T	VOL617A-4T	VOL617A-4X001T	VOL617A-7X001T
VOL617A-8X001T	VOL617A-8X001T3	VOL617AT	VOL618A-2T	VOL618A-2X001T
VOL618A-3102	VOL618A-3104	VOL618A-3115	VOL618A-3116	VOL618A-3T
VOL618A-3X001T	VOL618A-4T	VOL618A-4X001T	VOL618AT	VOL628A
VOL628A-2T	VOL628A-2X001T	VOL628A-3T	VOL628A-3X001T	VOL628A-4T
VOL628A-4X001T	VOL628AT	VOS615B-2X001T	VOS615B-3T	VOS615B-3X001T
VOS615B-4X001T	VOS615BT	VOS615B-X001T	VOS617B-2T	VOS617B-2X001T
VOS617B-3T	VOS617B-3X001T	VOS617B-4T	VOS617B-4X001T	VOS617B-7T
VOS617B-7X001T	VOS617B-8X001T	VOS617B-9T	VOS617B-9X001T	VOS617B-X001T
VOS618B-2T	VOS618B-2X001T	VOS618B-3T	VOS618B-3T3	VOS618B-3X001T
VOS618B-4T	VOS618B-7X001T	VOS618B-8T	VOS618B-8X001T	VOS618B-9X001T
VOS618B-X001T	VOS627B-3T	VOS627B-3X001T	VOS627B-4X001T	VOS627B-X001T
VOS628B-3T	VOS628B-3X001T	VOS628B-4X001T	VOS628B-X001T	



Additional information about PCN-OPT-1272-2023-REV-0

Table 1: Affected part list for both changes described in change item 1 and item 2

SFH6156-1	SFH615A-3X008T	VO615A-4X059T	TCMT1600	VOS617B-8X001T
SFH6156-1T	SFH615A-3X018	SFH6916	TCMT1600-3087	VOS617B-9T
SFH6156-1X001	SFH615A-3X018T	SFH6916-X001	TCMT1600T3	VOS617B-9X001T
SFH6156-1X001T	SFH615A-4X008T	SFH6916T	TCMT4100	VOS617B-X001T
SFH6156-2	SFH615A-4X018T	TCMD1000	TCMT4100T0	VOS618B-2T
SFH6156-2T	SFH615AA	TCMD4000	TCMT4106	VOS618B-2X001T
SFH6156-2X001	SFH615AA-X007	TCMT1100	TCMT4600	VOS618B-3T
SFH6156-2X001T	SFH615AGB-X009	TCMT1101	TCMT4600T0	VOS618B-3T3
SFH6156-3	SFH615AGB-X009T	TCMT1102	TCMT4606	VOS618B-3X001T
SFH6156-3041	SFH615AGR	TCMT1103	VOS615B-2X001T	VOS618B-4T
SFH6156-3078	SFH615AGR-X007T	TCMT1104	VOS615B-3T	VOS618B-7X001T
SFH6156-3133	SFH615AGR-X017	TCMT1105	VOS615B-3X001T	VOS618B-8T
SFH6156-3T	SFH615AGR-X017T	TCMT1106	VOS615B-4X001T	VOS618B-8X001T
SFH6156-3T0	SFH615AY	TCMT1107	VOS615B-X001T	VOS618B-9X001T
SFH6156-3X001	SFH615AY-X008T	TCMT1107T3	VOS615BT	VOS618B-X001T
SFH6156-3X001T	SFH615AY-X018T	TCMT1108	VOS617B-2T	VOS627B-3T
SFH6156-3X001T1	SFH615AY-X019T	TCMT1109	VOS617B-2X001T	VOS627B-3X001T
SFH6156-4	VO615A-2X056	TCMT1110	VOS617B-3T	VOS627B-4X001T
SFH6156-4T	VO615A-3X005	TCMT1113	VOS617B-3X001T	VOS627B-X001T
SFH6156-4X001T	VO615A-3X056	TCMT1116	VOS617B-4T	VOS628B-3T
SFH6156 E9063	VO615A-3X057T	TCMT1117	VOS617B-4X001T	VOS628B-3X001T
SFH6156 E9069	VO615A-4X056	TCMT1118	VOS617B-7T	VOS628B-4X001T
SFH6156 E9101	VO615A-4X058T	TCMT1119	VOS617B-7X001T	VOS628B-X001T

Table 2: Affected part list for both changes described in change item 1 and item 3

TCLD1000	TCLT1012	TCLT1106	VOL617A-1X001T	VOL618A-3115
TCLT1000	TCLT1013	TCLT1107	VOL617A-2T	VOL618A-3116
TCLT1001	TCLT1014	TCLT1108	VOL617A-2X001T	VOL618A-3T
TCLT1002	TCLT1014-0001	TCLT1109	VOL617A-3126	VOL618A-3X001T
TCLT1003	TCLT1014-4108	TCLT1110	VOL617A-3T	VOL618A-4T
TCLT1003-3035	TCLT1015	TCLT1111	VOL617A-3X001T	VOL618A-4X001T
TCLT1004	TCLT1016	TCLT1112	VOL617A-4T	VOL618AT
TCLT1005	TCLT1017	TCLT1113	VOL617A-4X001T	VOL628A
TCLT1005-3109	TCLT1018	TCLT1114	VOL617A-7X001T	VOL628A-2T
TCLT1006	TCLT1019	TCLT1115	VOL617A-8X001T	VOL628A-2X001T
TCLT1007	TCLT1100	TCLT1116	VOL617A-8X001T3	VOL628A-3T
TCLT1007-3118	TCLT1102	TCLT1117	VOL617AT	VOL628A-3X001T
TCLT1008	TCLT1103	TCLT1118	VOL618A-2T	VOL628A-4T
TCLT1009	TCLT1104	TCLT1119	VOL618A-2X001T	VOL628A-4X001T
TCLT1010	TCLT1104-3119	TCLT1600	VOL618A-3102	VOL628AT
TCLT1011	TCLT1105	VOL617A-1T	VOL618A-3104	