



Product Termination Notification



Product Group: DIODES / January 14th, 2015 / PCN-DD-002-2015 Rev.0

Product Discontinuation for Surface Mount Schottky Products

DESCRIPTION OF CHANGE: Discontinuation of part numbers.
Alternatives part numbers will be manufactured in Vishay in house factory in Tianjin China.
Package Outline Dimension will be slightly different but still meeting JEDEC specification tolerances.
Details of changes of device marking, label, packaging and MOQ are shown from page 4 to 6.
Together with the back-end assembly location and structure changes the Silicon Wafer diameter used as raw material will change from 5 inches (125 mm) to 6 inches (150 mm).
Taking the chance of the listed changes to be implemented in this PTN, Vishay Diodes will also launch the AEC Q-101 qualified corresponding material with HM3 code

CLASSIFICATION OF CHANGE: Product Obsolescence
Assembly site
Assembly Process/Structure
Labelling/Packing
Wafer/Chip/Pellet Site-Layout/Design

REASON FOR CHANGE: Discontinuation of:
DO-214AA (SMB) and DO-214AB (SMC) – PBF part numbers
DO-214AC (SMA) bulk packaging

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:
There will be no effect on quality, reliability, or electrical performance.

PRODUCT CATEGORY: Diodes, Schottky

PART NUMBERS/SERIES/FAMILIES AFFECTED:

PACKAGE	Obsolete Part Number	Alternative Part Number	AEC Q101 Part Number
SMA	VS-10MQ040NPBF	VS-10MQ040-M3/5AT	VS-10MQ040HM3/5AT
SMA	VS-10MQ060NPBF	VS-10MQ060-M3/5AT	VS-10MQ060HM3/5AT
SMA	VS-10MQ100NPBF	VS-10MQ100-M3/5AT	VS-10MQ100HM3/5AT
SMA	VS-15MQ040NPBF	VS-15MQ040-M3/5AT	VS-15MQ040HM3/5AT
SMA	VS-20MQ040NPBF	VS-20MQ040-M3/5AT	VS-20MQ040HM3/5AT
SMA	VS-20MQ060NPBF	VS-20MQ060-M3/5AT	VS-20MQ060HM3/5AT
SMA	VS-20MQ100NPBF	VS-20MQ100-M3/5AT	VS-20MQ100HM3/5AT
SMB	VS-10BQ015PBF	VS-10BQ015-M3/5BT	VS-10BQ015HM3/5BT
SMB	VS-10BQ030PBF	VS-10BQ030-M3/5BT	VS-10BQ030HM3/5BT
SMB	VS-10BQ040PBF	VS-10BQ040-M3/5BT	VS-10BQ040HM3/5BT
SMB	VS-10BQ060PBF	VS-10BQ060-M3/5BT	VS-10BQ060HM3/5BT
SMB	VS-10BQ100PBF	VS-10BQ100-M3/5BT	VS-10BQ100HM3/5BT

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com

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PACKAGE	Obsolete Part Number	Alternative Part Number	AEC Q101 Part Number
SMB	VS-20BQ030PBF	VS-20BQ030-M3/5BT	VS-20BQ030HM3/5BT
SMB	VS-STPS1L30UPBF		
SMB	VS-10BQ015TRPBF	VS-10BQ015-M3/5BT	VS-10BQ015HM3/5BT
SMB	VS-10BQ030TRPBF	VS-10BQ030-M3/5BT	VS-10BQ030HM3/5BT
SMB	VS-10BQ040TRPBF	VS-10BQ040-M3/5BT	VS-10BQ040HM3/5BT
SMB	VS-10BQ060TRPBF	VS-10BQ060-M3/5BT	VS-10BQ060HM3/5BT
SMB	VS-10BQ100TRPBF	VS-10BQ100-M3/5BT	VS-10BQ100HM3/5BT
SMB	VS-20BQ030TRPBF	VS-20BQ030-M3/5BT	VS-20BQ030HM3/5BT
SMB	VS-95-9873PBF	VS-10BQ040-M3/5BT	
SMB	VS-96-1014PBF	VS-MBRS140-M3/5BT	
SMB	VS-96-1040PBF	VS-10BQ100-M3/5BT	
SMB	VS-MBRS1100TRPBF	VS-MBRS1100-M3/5BT	VS-10BQ100HM3/5BT
SMB	VS-MBRS130LTRPBF	VS-MBRS130L-M3/5BT	
SMB	VS-MBRS130TRPBF	VS-MBRS130-M3/5BT	VS-10BQ030HM3/5BT
SMB	VS-MBRS140TRPBF	VS-MBRS140-M3/5BT	VS-10BQ040HM3/5BT
SMB	VS-MBRS190TRPBF	VS-MBRS190-M3/5BT	VS-10BQ100HM3/5BT
SMB	VS-VSHPS1487	VS-10BQ060-M3/5BT	
SMC	VS-30BQ015TRPBF	VS-30BQ015-M3/9AT	VS-30BQ015HM3/9AT
SMC	VS-30BQ040TRPBF	VS-30BQ040-M3/9AT	VS-30BQ040HM3/9AT
SMC	VS-30BQ060TRPBF	VS-30BQ060-M3/9AT	VS-30BQ060HM3/9AT
SMC	VS-30BQ100TRPBF	VS-30BQ100-M3/9AT	VS-30BQ100HM3/9AT
SMC	VS-95-9825PBF	VS-30BQ100-M3/9AT	
SMC	VS-95-9933PBF	VS-30BQ100-M3/9AT	
SMC	VS-96-1009PBF		VS-96-1009HM3
SMC	VS-96-1045PBF	VS-30BQ100-M3/9AT	
SMC	VS-96-1090PBF	VS-30BQ100-M3/9AT	
SMC	VS-96-1092PBF	VS-30BQ015-M3/9AT	
SMC	VS-MBRS340TRPBF	VS-MBRS340-M3/9AT	VS-30BQ040HM3/9AT
SMC	VS-MBRS360TRPBF	VS-MBRS360-M3/9AT	VS-30BQ060HM3/9AT
SMC	VS-30BQ015PBF	VS-30BQ015-M3/9AT	VS-30BQ015HM3/9AT
SMC	VS-30BQ040PBF	VS-30BQ040-M3/9AT	VS-30BQ040HM3/9AT
SMC	VS-30BQ060PBF	VS-30BQ060-M3/9AT	VS-30BQ060HM3/9AT
SMC	VS-30BQ100PBF	VS-30BQ100-M3/9AT	VS-30BQ100HM3/9AT

VISHAY BRAND(s): Vishay Semiconductor

TIME SCHEDULE:

Last Time Buy Date: July 13th, 2015
Last Time Shipment Date: January 18th, 2016
Last Time return Date: July 13th, 2015
Expiration of Ship and Debit: January 18th, 2016

SAMPLE AVAILABILITY: On customer request

PRODUCT IDENTIFICATION: N/A

QUALIFICATION DATA: Qualification data is presented on page 7 and 8 of this PCN.

This PTN is considered approved, without further notification, unless we receive specific customer concerns before March 16th, 2015 or as specified by contract.

ISSUED BY:

RS Chin, Vishay Diodes Product Marketing
e-mail: RS.Chin@vishay.com

For further information, please contact your regional Vishay office.

CONTACT INFORMATION:**The Americas**

Vishay Semiconductors
150 Motor Parkway, Suite
101E
Hauppauge, NY11788 USA
Phone : 631 300 3816
Fax : 631 300 3843
Diodes-Americas@vishay.com

Europe

Vishay Semiconductors
Theresienstrasse 2
D-74072 Heilbronn, Germany
Phone: + 49 7131 67 3364 (3365)
Fax: + 49 7131 67 2807
Diodes-Europe@vishay.com

Asia

Vishay Semiconductors
15D, Sun Tong Infoport Plaza
55 Huai Hai West Road
Shanghai, Cina
Phone: + 86 138 1787 2112
Fax: + 86 21 5258 7979
Diodes-Asia@vishay.com

Packaging

Current



New

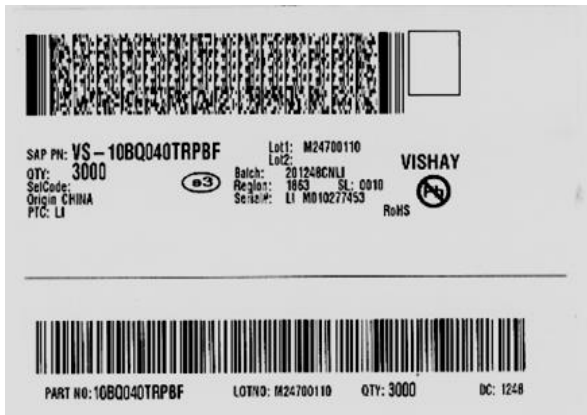


Package	Minimum Order Quantity	Qty/Carton	Reels
DO-214AC (SMA)	7500	90000	12
DO-214AB (SMC)	3500	35000	10
DO-214AA (SMB)	3200	38400	12

Table 1

Label

Current (Combined 2D+1D)



New (Separated 2D and 1D)



Device marking

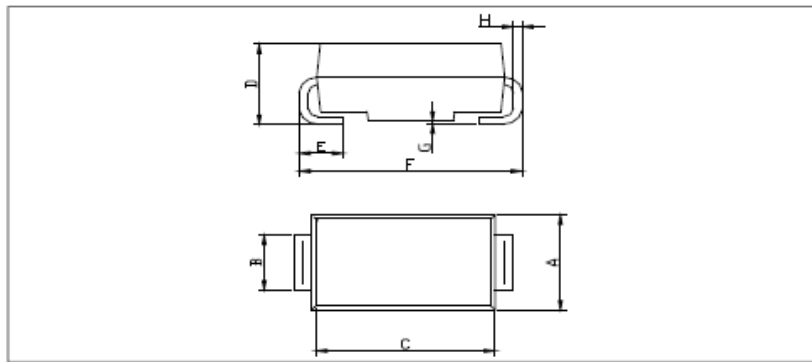
Current



New



Package Outline Dimension



SMA	Unit:mm	A	B	C	D	E	F
New	Spec	2.54~2.79	1.24~1.65	3.99~4.50	1.98~2.29	0.76~1.52	4.93~5.28
	Typical value	2.63	1.57	4.28	2.09	1.06	5.12
Current	Spec	2.55~2.65	1.46~1.54	4.15~4.25	1.97~2.03	0.87~1.13	4.98~5.18
	Typical value	2.6	1.5	4.2	2	1	5.08

SMB	Unit:mm	A	B	C	D	E	F
New	Spec	3.30~3.94	1.96~2.18	4.06~4.57	2.13~2.44	0.76~1.52	5.21~5.59
	Typical value	3.56	2.07	4.53	2.19	1.06	5.31
Current	Spec	3.45~3.55	1.92~2	4.35~4.45	2.13~2.19	0.87~1.13	5.26~5.46
	Typical value	3.5	2	4.4	2.16	1	5.36

SMC	Unit:mm	A	B	C	D	E	F
New	Spec	5.59~6.22	2.90~3.20	6.6~7.11	2.06~2.62	0.76~1.52	7.75~8.13
	Typical value	5.84	3.12	6.73	2.24	1.14	7.92
Current	Spec	5.75~5.85	2.96~3.04	6.75~6.85	2.13~2.19	1.01~1.27	7.77~7.97
	Typical value	5.8	3	6.8	2.16	1.14	7.87

Reliability results

SMA package

STRESS	CONDITIONS	TEST POINTS	SAMPLES	FAIL
HTRB	Tjmax @100% rated voltage 1000hrs	0 168 500 1000	4 x 77	0/308
TC	-55°C/150°C 1000 cycles	0 250 500 1000	4 x 77	0/308
UHASt	130°C 85%RH 96hrs	0 48 96	4 x 77	0/308
H3TRB	85°C 85%HR @80% Vr 1000hrs	0 168 500 1000	4 x 77	0/308
IOL	DT=100°C 1000Hrs	0 500 1000	4 x 77	0/308
D.P.A	AEC-Q101-004	n/a	2	Passed
Phys. Dimension	JESD22 B-100	n/a	30	0/30
RSH	JESD22 B-106	Before & After	30	0/30
Solderability	JESD22 B-102	Before & After	10	0/10

SMB package

STRESS	CONDITIONS	TEST POINTS	SAMPLES	FAIL
HTRB	Tjmax @100% rated voltage 1000hrs	0 168 500 1000	4 x 77	0/308
TC	-55°C/150°C 1000 cycles	0 250 500 1000	4 x 77	0/308
UHASt	130°C 85%RH 96hrs	0 48 96	4 x 77	0/308
H3TRB	85°C 85%HR @80% Vr 1000hrs	0 168 500 1000	4 x 77	0/308
IOL	DT=100°C 1000Hrs	0 500 1000	4 x 77	0/308
D.P.A	AEC-Q101-004	n/a	2	Passed
Phys. Dimension	JESD22 B-100	n/a	30	0/30
RSH	JESD22 B-106	Before & After	30	0/30
Solderability	JESD22 B-102	Before & After	10	0/10

SMC package

STRESS	CONDITIONS	TEST POINTS	SAMPLES	FAIL
HTRB	Tjmax @100% rated voltage 1000hrs	0 168 500 1000	4 x 77	0/308
TC	-55°C/150°C 1000 cycles	0 250 500 1000	4 x 77	0/308
UHASt	130°C 85%RH 96hrs	0 48 96	4 x 77	0/308
H3TRB	85°C 85%HR @80% Vr 1000hrs	0 168 500 1000	4 x 77	0/308
IOL	DT=100°C 1000Hrs	0 500 1000	4 x 77	0/308
D.P.A	AEC-Q101-004	n/a	2	Passed
Phys. Dimension	JESD22 B-100	n/a	30	0/30
RSH	JESD22 B-106	Before & After	30	0/30
Solderability	JESD22 B-102	Before & After	10	0/10