



# Product Change Notification



Product Group: Diodes / December 1<sup>st</sup>, 2014 / PCN-DD-026-2014 Rev.0

## 6 inches qualification for Schottky Products

**DESCRIPTION OF CHANGE:** Vishay Semiconductors announces that the Silicon Wafer diameter used as raw material will change from 5 inches (125 mm) to 6 inches (150 mm) and manufacturing process will be adapted to 6" existing lines.

**CLASSIFICATION OF CHANGE:** Wafer/Chip/Pellet Site-Layout/Design  
Assembly Process/Structure and Lead Free Statement

**REASON FOR CHANGE:** Continuous improvement and manufacturing flexibility.

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

**PRODUCT CATEGORY:** Schottky

### PART NUMBERS/SERIES/FAMILIES AFFECTED:

PACKAGE	PRODUCT	HALOGEN FREE VERSION	PRODUCT AEC Q101
D2PAK	VS-10CTQ150-1PBF	VS-10CTQ150-1-M3	
D2PAK	VS-10CTQ150SPBF	VS-10CTQ150S-M3	
D2PAK	VS-10CTQ150STRLPBF	VS-10CTQ150STRL-M3	
D2PAK	VS-10CTQ150STRRPBF	VS-10CTQ150STRR-M3	
D2PAK	VS-19TQ015SPBF	VS-19TQ015S-M3	
D2PAK	VS-19TQ015STRLPBF	VS-19TQ015STRL-M3	
D2PAK	VS-19TQ015STRRPBF	VS-19TQ015STRR-M3	
D2PAK	VS-20CTQ150-1-011P	VS-20CTQ150-1-011P	
D2PAK	VS-20CTQ150-1PBF	VS-20CTQ150-1-M3	VS-20CTQ150-1HM3
D2PAK	VS-20CTQ150SPBF	VS-20CTQ150S-M3	VS-20CTQ150SHM3
D2PAK	VS-20CTQ150STRLPBF	VS-20CTQ150STRL-M3	VS-20CTQ150STRLHM3
D2PAK	VS-20CTQ150STRRPBF	VS-20CTQ150STRR-M3	VS-20CTQ150STRRHM3
D2PAK	VS-20L15TSPBF	VS-20L15TS-M3	
D2PAK	VS-20L15TSTRLPBF	VS-20L15TSTRL-M3	
D2PAK	VS-20L15TSTRRPBF	VS-20L15TSTRR-M3	
D2PAK	VS-40CTQ150-1PBF	VS-40CTQ150-1-M3	
D2PAK	VS-40CTQ150SPBF	VS-40CTQ150S-M3	
D2PAK	VS-40CTQ150STRLPBF	VS-40CTQ150STRL-M3	
D2PAK	VS-40CTQ150STRRPBF	VS-40CTQ150STRR-M3	
D2PAK	VS-40L15CT-1PBF	VS-40L15CT-1-M3	
D2PAK	VS-40L15CTSPBF	VS-40L15CTS-M3	
D2PAK	VS-40L15CTSTRLPBF	VS-40L15CTSTRL-M3	
D2PAK	VS-40L15CTSTRRPBF	VS-40L15CTSTRR-M3	

Vishay Intertechnology, Inc.

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PACKAGE	PRODUCT	HALOGEN FREE VERSION	PRODUCT AEC Q101
D2PAK		VS-96-1078PBF	
D2PAK		VS-96-1086PBF	
D2PAK		VS-96-1091PBF	
D2PAK		VS-S1504	
D2PAK	VS-STPS20L15GPBF	VS-STPS20L15G-M3	
D2PAK	VS-STPS20L15GTRLP	VS-STPS20L15GL-M3	
D2PAK	VS-STPS20L15GTRRP	VS-STPS20L15GR-M3	
D-61	VS-110CNQ045APBF		
D-61	VS-110CNQ045ASLPBF		
D-61	VS-110CNQ045ASMPBF		
D-61	VS-111CNQ045APBF		
D-61	VS-111CNQ045ASLPBF		
D-61	VS-111CNQ045ASMPBF		
D-61	VS-112CNQ030APBF		
D-61	VS-112CNQ030ASLPBF		
D-61	VS-112CNQ030ASMPBF		
D-61	VS-113CNQ100APBF		
D-61	VS-113CNQ100ASLPBF		
D-61	VS-113CNQ100ASMPBF		
D-61	VS-115CNQ015APBF		
D-61	VS-115CNQ015ASLPBF		
D-61	VS-115CNQ015ASMPBF		
D-61	VS-80CNQ035APBF		
D-61	VS-80CNQ035ASLPBF		
D-61	VS-80CNQ035ASMPBF		
D-61	VS-80CNQ040APBF		
D-61	VS-80CNQ040ASLPBF		
D-61	VS-80CNQ040ASMPBF		
D-61	VS-80CNQ045APBF		
D-61	VS-80CNQ045ASLPBF		
D-61	VS-80CNQ045ASMPBF		
D-61	VS-81CNQ035APBF		
D-61	VS-81CNQ035ASLPBF		
D-61	VS-81CNQ035ASMPBF		
D-61	VS-81CNQ040APBF		
D-61	VS-81CNQ040ASLPBF		
D-61	VS-81CNQ040ASMPBF		
D-61	VS-81CNQ045APBF		
D-61	VS-81CNQ045ASLPBF		

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PACKAGE	PRODUCT	HALOGEN FREE VERSION	PRODUCT AEC Q101
D-61	VS-81CNQ045ASMPBF		
D-61	VS-82CNQ030APBF		
D-61	VS-82CNQ030ASLPBF		
D-61	VS-82CNQ030ASMPBF		
D-61	VS-83CNQ080APBF		
D-61	VS-83CNQ080ASLPBF		
D-61	VS-83CNQ080ASMPBF		
D-61	VS-83CNQ100APBF		
D-61	VS-83CNQ100ASLPBF		
D-61	VS-83CNQ100ASMPBF		
D-61	VS-85CNQ015APBF		
D-61	VS-85CNQ015ASLPBF		
D-61	VS-85CNQ015ASMPBF		
D-61	VS-87CNQ020APBF		
D-61	VS-87CNQ020ASLPBF		
D-61	VS-87CNQ020ASMPBF		
D-61	VS-88CNQ060APBF		
D-61	VS-88CNQ060ASLPBF		
D-61	VS-88CNQ060ASMPBF		
D-61	VS-96-1026PBF		
Powertab	VS-100BGQ015		VS-100BGQ015HF4
TO-220	VS-10CTQ150PBF	VS-10CTQ150-N3	
TO-220	VS-19TQ015PBF	VS-19TQ015-N3	
TO-220	VS-20CTQ150PBF	VS-20CTQ150-N3	
TO-220	VS-20L15TPBF	VS-20L15T-N3	
TO-220	VS-40CTQ150PBF	VS-40CTQ150-N3	
TO-220	VS-40L15CTPBF	VS-40L15CT-N3	
TO-220	VS-60CTQ150PBF	VS-60CTQ150-N3	
TO-220	VS-96-1093PBF		
TO-220	VS-STPS20L15DPBF	VS-STPS20L15D-N3	
TO-220	VS-STPS40L15CTPBF	VS-STPS40L15CT-N3	
TO-247	VS-30CPQ140PBF	VS-30CPQ140-N3	
TO-247	VS-30CPQ150PBF	VS-30CPQ150-N3	
TO-247	VS-40L15CWPBF	VS-40L15CW-N3	
TO-247	VS-60CPQ150PBF	VS-60CPQ150-N3	
TO-247	VS-65PQ015PBF	VS-65PQ015-N3	
TO-247	VS-80CPQ150PBF	VS-80CPQ150-N3	
TO-247	VS-MBR40L15CWPBF	VS-MBR40L15CW-N3	
TO-247	VS-STPS40L15CWPBF	VS-STPS40L15CW-N3	

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*Additional part numbers released in TO-220, TO-247, D-61, PowerTab and D<sup>2</sup>PAK packages after the effective date of this PCN will be covered by this announcement.*

**VISHAY BRAND(s):** Vishay Semiconductors

**TIME SCHEDULE:** After **February 2<sup>nd</sup>, 2014** Vishay may start to implement the above changes on new production

**SAMPLE AVAILABILITY:** On customer request

**PRODUCT IDENTIFICATION:** N/A

**QUALIFICATION DATA:** Qualification data is presented from page 5 of this PCN

**This PCN is considered approved, without further notification, unless we receive specific customer concerns before January 19<sup>th</sup>, 2014 or as specified by contract.**

**ISSUED BY:**

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**Schottky 15V to 150V 6 inches wafers.**

**TO-220 package**

<b>STRESS</b>	<b>CONDITIONS</b>	<b>TEST POINTS</b>	<b>SAMPLES</b>	
HTRB	Tjmax @100% rated voltage 1000hrs	0 168 500 1000	231	0/231
TC	-55°C/150°C 1000 cycles	0 250 500 1000	231	0/231
UFAST	130°C 85%RH 96hrs	0 48 96	231	0/231
H3TRB	85°C 85%HR @80% Vr 1000hrs	0 168 500 1000	231	0/231
IOL	DT=100°C 1000Hrs	0 500 1000	231	0/231

**TO-247 package**

<b>STRESS</b>	<b>CONDITIONS</b>	<b>TEST POINTS</b>	<b>SAMPLES</b>	
HTRB	Tjmax @100% rated voltage 1000hrs	0 168 500 1000	227	0/227
TC	-55°C/150°C 1000 cycles	0 250 500 1000	227	0/227
UFAST	130°C 85%RH 96hrs	0 48 96	227	0/227
H3TRB	85°C 85%HR @80% Vr 1000hrs	0 168 500 1000	227	0/227
IOL	DT=100°C 1000Hrs	0 500 1000	227	0/227

**D2PAK package**

<b>STRESS</b>	<b>CONDITIONS</b>	<b>TEST POINTS</b>	<b>SAMPLES</b>	
HTRB	Tjmax @100% rated voltage 1000hrs	0 168 500 1000	77	0/77
TC	-55°C/150°C 1000 cycles	0 250 500 1000	77	0/77
UHAST	130°C 85%RH 96hrs	0 48 96	77	0/77
H3TRB	85°C 85%HR @80% Vr 1000hrs	0 168 500 1000	77	0/77
IOL	DT=100°C 1000Hrs	0 500 1000	77	0/77

**D-61 package**

<b>STRESS</b>	<b>CONDITIONS</b>	<b>TEST POINTS</b>	<b>SAMPLES</b>	
HTRB	Tjmax @100% rated voltage 1000hrs	0 168 500 1000	50	0/50
TC	-55°C/150°C 1000 cycles	0 250 500 1000	50	0/50
UHAST	130°C 85%RH 96hrs	0 48 96	50	0/50
H3TRB	85°C 85%HR @80% Vr 1000hrs	0 168 500 1000	50	0/50
IOL	DT=100°C 1000Hrs	0 500 1000	50	0/50