



Product Change Notification



Product Group: Diodes Division / January 24, 2020 / PCN-DD-003-2020 Rev 0

Die Passivation change

DESCRIPTION OF CHANGE: Vishay Semiconductors announces the change of the die passivation material from one single layer (Silicone Elastomer) to two layers (Polyimide plus Silicone Elastomer) on below Part Numbers. Other Fab processes, total passivation thickness and deposition method will remain unchanged.

CLASSIFICATION OF CHANGE: Wafer/Chip/Pellet Process/Structure

REASON FOR CHANGE: Obsolescence of the current die passivation material from supplier.

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

PRODUCT CATEGORY: Diodes, Thyristors, Modules

PART NUMBERS/SERIES/FAMILIES AFFECTED:

Part Number	Part Number	Part Number	Part Number
VS-301U160	VS-S1077	VS-SD400C20C	VS-ST330S16P1
VS-301U200	VS-S1078	VS-SD400C24C	VS-ST330S16P1PBF
VS-301U250	VS-S1080	VS-SD400N16PC	VS-ST650C20L1
VS-301UA200	VS-S1082	VS-SD400N20PC	VS-ST650C22L0
VS-301UR160	VS-S1090	VS-SD400N24PC	VS-ST650C22L1
VS-301UR200	VS-S1096	VS-SD400R16PC	VS-ST650C24L0
VS-301UR250	VS-S1097	VS-SD400R20PC	VS-ST650C24L1
VS-301URA160	VS-S109B	VS-SD400R24PC	VS-ST700C08L0
VS-301URA200	VS-S1100	VS-SD403C12S15C	VS-ST700C12L0
VS-301URA250	VS-S1106	VS-SD403C14S15C	VS-ST700C12L0L
VS-303UA250	VS-S1107	VS-SD403C16S15C	VS-ST700C12L1
VS-303URA160	VS-S1114	VS-SD600N04PC	VS-ST700C16L0
VS-303URA200	VS-S1131A	VS-SD600N08PC	VS-ST700C16L0L
VS-303URA250	VS-S1132A	VS-SD600N12PC	VS-ST700C16L1
VS-305U160	VS-S1138	VS-SD600N16M24C	VS-ST700C16L1L
VS-305U200	VS-S1142	VS-SD600N16PC	VS-ST700C18L0
VS-305U250	VS-S1144	VS-SD600N20PC	VS-ST700C18L1
VS-305UA160	VS-S1146	VS-SD600N22PC	VS-ST700C20L0
VS-305UA250	VS-S1147	VS-SD600R04PC	VS-ST700C20L0L
VS-305UR160	VS-S1149	VS-SD600R08PC	VS-ST700C20L1
VS-305UR200	VS-S1150	VS-SD600R12PC	VS-ST730C08L0
VS-305URA160	VS-S1151	VS-SD600R16PC	VS-ST730C08L1
VS-305URA200	VS-S1152	VS-SD600R20PC	VS-ST730C12L0

Part Number	Part Number	Part Number	Part Number
VS-305URA250	VS-S1154	VS-SD603C12S15C	VS-ST730C12L0L
VS-307U160	VS-S1157	VS-SD603C14S15C	VS-ST730C12L1
VS-307U200	VS-S1200	VS-SD603C16S15C	VS-ST730C12L1L
VS-307U250	VS-S1203	VS-SD603C20S20C	VS-ST730C14L0
VS-307UA200	VS-S1210	VS-SD603C22S20C	VS-ST730C14L0L
VS-307UR160	VS-S1211	VS-SD703C12S20L	VS-ST730C14L1
VS-307UR200	VS-S1227	VS-SD703C12S30L	VS-ST730C14L1L
VS-307UR250	VS-S1228	VS-SD703C16S20L	VS-ST730C16L0
VS-307URA160	VS-S1229	VS-SD703C20S20L	VS-ST730C16L0L
VS-307URA200	VS-S1230	VS-SD703C25S20L	VS-ST730C16L1
VS-307URA250	VS-S1237	VS-SD703C25S30L	VS-ST730C16L1L
VS-309U160	VS-S1238	VS-SD803C12S15C	VS-ST730C18L0
VS-309U250	VS-S1239	VS-SD803C14S15C	VS-ST730C18L1
VS-309UA160	VS-S1247	VS-SD803C16S15C	VS-ST730C18L1L
VS-309UA250	VS-S1247PBF	VS-SD823C12S20C	VS-ST730C20L0
VS-309UR160	VS-S1248	VS-SD823C12S30C	VS-ST730C20L1
VS-309UR250	VS-S1248PBF	VS-SD823C20S20C	VS-ST730C20L1L
VS-309URA160	VS-S1249	VS-SD823C25S20C	VS-VS19CSR16L
VS-309URA200	VS-S1249PBF	VS-SD823C25S30C	VS-VS19EDR16L
VS-309URA250	VS-S1254	VS-ST1000C12K1	VS-VS19EDR20L
VS-400U120D	VS-S1255	VS-ST1000C14K1	VS-VS19EDR25L
VS-400U160D	VS-S1256	VS-ST1000C16K0	VS-VS24CSR16L
VS-400U80D	VS-S1257	VS-ST1000C16K1	VS-VS24DSR16L
VS-400UR120D	VS-S1258	VS-ST1000C18K0	VS-VS24DSR20L
VS-400UR160D	VS-S1259	VS-ST1000C18K1	VS-VS24EDR16L
VS-400UR80D	VS-S1261	VS-ST1000C20K0	VS-VS24EDR20L
VS-61-0126	VS-S1266	VS-ST1000C20K1	VS-VS24EDR25L
VS-61-0173	VS-S1274	VS-ST1000C22K0	VS-VS30CSR16L
VS-61-0233	VS-S1277	VS-ST1000C22K0L	VS-VS30DLR16S15
VS-68-7052	VS-S1301	VS-ST1000C22K1	VS-VS30EDR04L
VS-68-7052PBF	VS-S1302	VS-ST1000C22K1L	VS-VS30EDR16L
VS-73-4069	VS-S1304	VS-ST1000C24K0	VS-VS30EDR20L
VS-73-4279	VS-S1304PBF	VS-ST1000C24K0L	VS-VS30EDR20M
VS-73-4284	VS-S1352	VS-ST1000C24K1	VS-VS30ELR25S20
VS-73-4378	VS-S1353	VS-ST110S14P0PBF	VS-VS38DSR16M
VS-73-4379	VS-S1356	VS-ST110S16M1PBF	VS-VS38DSR18M
VS-73-4448	VS-S1357	VS-ST110S16P0	VS-VS38ESR16M
VS-73-4462	VS-S1363	VS-ST110S16P0PBF	VS-VS38FSR22M

Part Number	Part Number	Part Number	Part Number
VS-73-4714	VS-S1367	VS-ST110S16P1	VS-VS52DSR16M
VS-73-4715	VS-S1386	VS-ST110S16P1PBF	VS-VSHPS1347
VS-73-4720	VS-S1388	VS-ST110S16P2PBF	VS-VSHPS1426
VS-73-4790	VS-S1391	VS-ST1200C12K0	VS-VSHPS1439
VS-73-5110	VS-S1392	VS-ST1200C12K0P	VS-VSHPS1440
VS-73-5265A	VS-S1396	VS-ST1200C12K1	VS-VSHPS1447
VS-73-5266A	VS-S1397	VS-ST1200C14K0	VS-VSHPS1454
VS-73-6273	VS-S1398	VS-ST1200C14K0P	VS-VSHPS1455
VS-73-6283	VS-S1406	VS-ST1200C16K0	VS-VSHPS1456
VS-73-6284	VS-S1407	VS-ST1200C16K0P	VS-VSHPS1458
VS-74-7028	VS-S1408	VS-ST1200C16K1	VS-VSHPS1459
VS-74-7194	VS-S1409	VS-ST1200C16K1L	VS-VSHPS1464
VS-74-7322	VS-S1412	VS-ST1200C16K3P	VS-VSHPS1467
VS-74-7374	VS-S149	VS-ST1200C18K0	VS-VSHPS1473
VS-74-7431	VS-S1521	VS-ST1200C18K0L	VS-VSHPS1474
VS-74-7433	VS-S1610	VS-ST1200C18K0P	VS-VSHPS1475
VS-74-7459	VS-S1625	VS-ST1200C18K1	VS-VSHPS1486
VS-74-7524	VS-S1634	VS-ST1200C20K0	VS-VSHPS1499
VS-74-7526	VS-S1677	VS-ST1200C20K0L	VS-VSKC250-08PBF
VS-74-7585	VS-S1678	VS-ST1200C20K0LP	VS-VSKC250-12PBF
VS-74-7592	VS-S1792	VS-ST1200C20K0P	VS-VSKC250-16PBF
VS-74-7605	VS-S1793	VS-ST1200C20K1	VS-VSKC270-04PBF
VS-74-7701	VS-S230	VS-ST1200C20K1P	VS-VSKC270-12PBF
VS-74-7704	VS-S263A	VS-ST1230C08K0	VS-VSKC320-04PBF
VS-74-7709	VS-S294-16	VS-ST1230C08K1	VS-VSKC320-08PBF
VS-74-7716	VS-S296-16A	VS-ST1230C12K0	VS-VSKC320-12PBF
VS-74-7721	VS-S383C	VS-ST1230C12K0L	VS-VSKC320-16PBF
VS-74-7729	VS-S444B	VS-ST1230C12K0P	VS-VSKC320-20PBF
VS-74-7787	VS-S479A	VS-ST1230C12K1	VS-VSKD250-04PBF
VS-78-5146	VS-S487A	VS-ST1230C12K1P	VS-VSKD250-08PBF
VS-78-5146PBF	VS-S488A	VS-ST1230C14K0	VS-VSKD250-12PBF
VS-78-5148	VS-S490B	VS-ST1230C14K0L	VS-VSKD250-16PBF
VS-78-5148PBF	VS-S491	VS-ST1230C14K0LP	VS-VSKD250-20PBF
VS-78-5493	VS-S595A	VS-ST1230C14K0P	VS-VSKD270-04PBF
VS-78-5493PBF	VS-S596A	VS-ST1230C14K1	VS-VSKD270-08PBF
VS-80-6017	VS-S598	VS-ST1230C14K1P	VS-VSKD270-12PBF
VS-80-6018	VS-S600	VS-ST1230C16K0	VS-VSKD270-16PBF
VS-80-6019	VS-S624D	VS-ST1230C16K0L	VS-VSKD320-04PBF

Part Number	Part Number	Part Number	Part Number
VS-80-6020	VS-S626A	VS-ST1230C16K0LP	VS-VSKD320-08PBF
VS-82-2309	VS-S627B	VS-ST1230C16K0P	VS-VSKD320-12PBF
VS-82-2353	VS-S628A	VS-ST1230C16K1	VS-VSKD320-16PBF
VS-82-2375	VS-S669B	VS-ST1230C16K1P	VS-VSKD320-20PBF
VS-82-2376	VS-S670B	VS-ST180C12C0	VS-VSKD600-08PBF
VS-82-2540	VS-S671C	VS-ST180C12C0L	VS-VSKD600-12PBF
VS-82-2546	VS-S672C	VS-ST180C12C1	VS-VSKD600-16PBF
VS-82-2607	VS-S675B	VS-ST180C14C0L	VS-VSKD600-20PBF
VS-82-2613	VS-S676B	VS-ST180C16C0	VS-VSKE250-04PBF
VS-82-2614	VS-S686D	VS-ST180C16C1	VS-VSKE250-08PBF
VS-82-6238	VS-S694	VS-ST180C16C1L	VS-VSKE250-12PBF
VS-88-4177	VS-S712A	VS-ST180C18C0	VS-VSKE250-16PBF
VS-88-4180	VS-S723A	VS-ST180C18C1	VS-VSKE250-20PBF
VS-88-4180PBF	VS-S737A	VS-ST180C20C0	VS-VSKE270-04PBF
VS-88-4199	VS-S740A	VS-ST180C20C1	VS-VSKE270-08PBF
VS-88-4211	VS-S741A	VS-ST180S08P0V	VS-VSKE270-12PBF
VS-88-4347	VS-S743A	VS-ST180S08P0VPBF	VS-VSKE270-16PBF
VS-88-4533	VS-S748	VS-ST180S08P1V	VS-VSKE270-20PBF
VS-88-4536	VS-S751	VS-ST180S12P0V	VS-VSKE320-04PBF
VS-88-4655	VS-S822	VS-ST180S12P0VPBF	VS-VSKE320-08PBF
VS-88-4726	VS-S849A	VS-ST180S12P1V	VS-VSKE320-12PBF
VS-88-4727	VS-S860	VS-ST180S12P1VPBF	VS-VSKE320-16PBF
VS-88-4728	VS-S861	VS-ST180S16M0LPBF	VS-VSKE320-20PBF
VS-88-4729	VS-S874	VS-ST180S16P0	VS-VSKH170-04PBF
VS-88-4781	VS-S905-18	VS-ST180S16P0PBF	VS-VSKH170-12PBF
VS-88-4781PBF	VS-S926	VS-ST180S16P1	VS-VSKH170-16PBF
VS-88-4786	VS-S927	VS-ST180S16P1PBF	VS-VSKH230-04PBF
VS-88-4786PBF	VS-S936	VS-ST180S20P0	VS-VSKH230-08PBF
VS-88-4962	VS-S940	VS-ST180S20P0PBF	VS-VSKH230-12PBF
VS-88-4966	VS-S941	VS-ST180S20P1	VS-VSKH230-14PBF
VS-88-4966PBF	VS-S950	VS-ST180S20P1PBF	VS-VSKH230-16PBF
VS-88-4970	VS-S957A	VS-ST230C14C0	VS-VSKH230-20PBF
VS-88-4979	VS-S958A	VS-ST230C14C0L	VS-VSKH250-04PBF
VS-88-5024	VS-S964	VS-ST230C14C1	VS-VSKH250-08PBF
VS-88-5067	VS-S967	VS-ST230C14C1L	VS-VSKH250-12PBF
VS-88-5073	VS-S968	VS-ST230C16C0	VS-VSKH250-14PBF
VS-88-5073PBF	VS-S972	VS-ST230C16C0L	VS-VSKH250-16PBF
VS-88-5074	VS-S991A	VS-ST230C16C1	VS-VSKH250-18PBF

Part Number	Part Number	Part Number	Part Number
VS-88-5074PBF	VS-S995	VS-ST230C16C1L	VS-VSKH250-20PBF
VS-88-5105	VS-S999	VS-ST230C20C1	VS-VSKH320-16PBF
VS-88-5108	VS-SD1053C18S20L	VS-ST230S12M0VPBF	VS-VSKH500-12PBF
VS-88-5142	VS-SD1053C22S20L	VS-ST230S12P0V	VS-VSKH500-14PBF
VS-88-5165	VS-SD1053C22S30L	VS-ST230S12P0VPBF	VS-VSKH500-16PBF
VS-88-5166	VS-SD1053C24S20L	VS-ST230S12P1V	VS-VSKH570-16PBF
VS-88-5168	VS-SD1053C25S20L	VS-ST230S12P1VPBF	VS-VSKH570-18PBF
VS-88-5193	VS-SD1100C04C	VS-ST230S14P0PBF	VS-VSKJ250-08PBF
VS-88-6015	VS-SD1100C04L	VS-ST230S16M1PBF	VS-VSKJ250-16PBF
VS-88-6024	VS-SD1100C08C	VS-ST230S16P0	VS-VSKJ270-12PBF
VS-88-6315	VS-SD1100C08L	VS-ST230S16P0PBF	VS-VSKJ320-04PBF
VS-88-6378	VS-SD1100C12C	VS-ST230S16P1	VS-VSKJ320-08PBF
VS-88-6436	VS-SD1100C12L	VS-ST230S16P1PBF	VS-VSKJ320-12PBF
VS-88-6449	VS-SD1100C16C	VS-ST300C08C0	VS-VSKJ320-16PBF
VS-88-6450	VS-SD1100C16L	VS-ST300C08C0L	VS-VSKJ320-20PBF
VS-88-6473	VS-SD1100C20C	VS-ST300C08C1	VS-VSKK230-12PBF
VS-88-6482	VS-SD1100C20L	VS-ST300C12C0	VS-VSKK230-20PBF
VS-88-6500	VS-SD1100C22C	VS-ST300C12C0L	VS-VSKL170-16PBF
VS-88-6508	VS-SD1100C22L	VS-ST300C12C1	VS-VSKL230-12PBF
VS-88-6509	VS-SD1100C25C	VS-ST300C12L0	VS-VSKL230-16PBF
VS-88-6607	VS-SD1100C25L	VS-ST300C12L1	VS-VSKL250-08PBF
VS-88-6608	VS-SD1500C04L	VS-ST300C14C0L	VS-VSKL250-12PBF
VS-88-6615	VS-SD1500C08L	VS-ST300C16C0	VS-VSKL250-14PBF
VS-88-6619	VS-SD1500C12L	VS-ST300C16C1	VS-VSKL250-16PBF
VS-88-6645	VS-SD1500C16L	VS-ST300C16L0	VS-VSKL250-18PBF
VS-88-6646	VS-SD1500C20L	VS-ST300C18C0	VS-VSKL250-20PBF
VS-88-6690	VS-SD1553C18S20K	VS-ST300C18C1	VS-VSKL500-16PBF
VS-88-7003	VS-SD1553C18S30K	VS-ST300C18C1L	VS-VSKT170-04PBF
VS-88-7098	VS-SD1553C25S20K	VS-ST300C18L1	VS-VSKT170-08PBF
VS-88-7193	VS-SD1553C25S30K	VS-ST300C20C0	VS-VSKT170-12PBF
VS-88-7305	VS-SD200N16PC	VS-ST300C20C0L	VS-VSKT170-14PBF
VS-88-7306	VS-SD200N20PC	VS-ST300C20C1	VS-VSKT170-16PBF
VS-88-7307	VS-SD200N24PC	VS-ST300C20L0	VS-VSKT230-04PBF
VS-88-7308	VS-SD200R16M12C	VS-ST300C20L1	VS-VSKT230-08PBF
VS-88-7309	VS-SD200R16PC	VS-ST300S12P0	VS-VSKT230-12PBF
VS-88-7312	VS-SD200R20PC	VS-ST300S12P0PBF	VS-VSKT230-14PBF
VS-88-7315	VS-SD200R24MC	VS-ST300S18M0PBF	VS-VSKT230-16PBF
VS-88-7315PBF	VS-SD200R24PC	VS-ST300S20P0PBF	VS-VSKT230-18PBF

Part Number	Part Number	Part Number	Part Number
VS-88-7316	VS-SD203N25S20PC	VS-ST330C12L0	VS-VSKT230-20PBF
VS-88-7317	VS-SD203R25S20PC	VS-ST330C12L0L	VS-VSKT250-04PBF
VS-88-7322	VS-SD2500C12K	VS-ST330C12L1	VS-VSKT250-08PBF
VS-88-7323	VS-SD2500C16K	VS-ST330C14C0	VS-VSKT250-12PBF
VS-G1485PDA	VS-SD2500C20K	VS-ST330C14C0L	VS-VSKT250-14PBF
VS-G1736UR	VS-SD2500C24K	VS-ST330C14C1	VS-VSKT250-16PBF
VS-G488U	VS-SD2500C25K	VS-ST330C14C1L	VS-VSKT250-18PBF
VS-G489UR	VS-SD300C04C	VS-ST330C14L0	VS-VSKT250-20PBF
VS-G490U	VS-SD300C08C	VS-ST330C14L1	VS-VSKT320-08PBF
VS-G491UR	VS-SD300C12C	VS-ST330C16C0	VS-VSKT320-12PBF
VS-S088-1	VS-SD300C16C	VS-ST330C16C0L	VS-VSKT320-14PBF
VS-S1001	VS-SD300C20C	VS-ST330C16C1	VS-VSKT320-16PBF
VS-S1006	VS-SD300C25C	VS-ST330C16C1L	VS-VSKT500-08PBF
VS-S1016	VS-SD300N16PC	VS-ST330C16C3	VS-VSKT500-12PBF
VS-S1024A	VS-SD300N20PC	VS-ST330C16L0	VS-VSKT500-14PBF
VS-S1025A	VS-SD300N25PC	VS-ST330C16L0L	VS-VSKT500-16PBF
VS-S1030	VS-SD300R16PC	VS-ST330C16L1	VS-VSKT500-18PBF
VS-S1031	VS-SD300R20PC	VS-ST330C16L1L	VS-VSKT500-20PBF
VS-S1032	VS-SD303C12S15C	VS-ST330S12P0	VS-VSKT550-08PBF
VS-S103A	VS-SD303C14S15C	VS-ST330S12P0PBF	VS-VSKT550-14PBF
VS-S1054	VS-SD303C16S15C	VS-ST330S12P1	VS-VSKT570-16PBF
VS-S1055	VS-SD303C20S20C	VS-ST330S12P1PBF	VS-VSKT570-18PBF
VS-S1056	VS-SD303C25S20C	VS-ST330S14P0	VS-VSKU250-12PBF
VS-S1059	VS-SD400C04C	VS-ST330S14P0PBF	VS-VSKV230-08PBF
VS-S1071	VS-SD400C08C	VS-ST330S16M1PBF	VS-VSKV250-04PBF
VS-S1072	VS-SD400C12C	VS-ST330S16P0	VS-VSKV250-08PBF
VS-S1076	VS-SD400C16C	VS-ST330S16P0PBF	VS-VSKV250-12PBF

VISHAY BRAND(s): Vishay Semiconductors

TIME SCHEDULE: Starting from February 14, 2020 Vishay will gradually start to ship the products with the new die passivation.

SAMPLE AVAILABILITY: Upon request

PRODUCT IDENTIFICATION: N/A

QUALIFICATION DATA: Available upon request

This PCN is considered approved, without further notification, unless we receive specific customer written concerns before February 13, 2020 or as specified by contract

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