



# Product Change Notification



Product Group: Diodes / March 3<sup>rd</sup>, 2014 / PCN-DD-006-2014 Rev.0

## Additional Wafer Fab Site Qualification

**DESCRIPTION OF CHANGE:** Vishay Semiconductor announces the qualification of additional Vishay owned Wafer Fab includes changes in diffusion process and locations change for sawing and chip testing.

**CLASSIFICATION OF CHANGE:** Wafer/Chip/Pellet Site and Test site

**REASON FOR CHANGE:** Additional wafer fab capacity and security of supply.

**EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:**

There will be no effect on quality, reliability, or electrical performance.

**PRODUCT CATEGORY :** Module, Diode and Thyristor

**PART NUMBERS/SERIES/FAMILIES AFFECTED:**

AAP Gen.VII				
VS-82-0495A	VS-VSKD56/12	VS-VSKE71/12	VS-VSKH41/12	VS-VSKJ56/12
VS-S1660	VS-VSKD56/14	VS-VSKE71/14	VS-VSKH41/14	VS-VSKJ56/14
VS-S1676	VS-VSKD56/16	VS-VSKE71/16	VS-VSKH41/16	VS-VSKJ56/16
VS-VSKC56/04	VS-VSKD71/04	VS-VSKE91/04	VS-VSKH56/04	VS-VSKJ71/04
VS-VSKC56/06	VS-VSKD71/06	VS-VSKE91/06	VS-VSKH56/06	VS-VSKJ71/06
VS-VSKC56/08	VS-VSKD71/08	VS-VSKE91/08	VS-VSKH56/08	VS-VSKJ71/08
VS-VSKC56/10	VS-VSKD71/10	VS-VSKE91/10	VS-VSKH56/10	VS-VSKJ71/10
VS-VSKC56/12	VS-VSKD71/12	VS-VSKE91/12	VS-VSKH56/12	VS-VSKJ71/12
VS-VSKC56/14	VS-VSKD71/14	VS-VSKE91/14	VS-VSKH56/14	VS-VSKJ71/14
VS-VSKC56/16	VS-VSKD71/16	VS-VSKE91/16	VS-VSKH56/16	VS-VSKJ71/16
VS-VSKC71/04	VS-VSKD91/04	VS-VSKH105/04	VS-VSKH71/04	VS-VSKJ91/04
VS-VSKC71/06	VS-VSKD91/06	VS-VSKH105/06	VS-VSKH71/06	VS-VSKJ91/06
VS-VSKC71/08	VS-VSKD91/08	VS-VSKH105/08	VS-VSKH71/08	VS-VSKJ91/08
VS-VSKC71/10	VS-VSKD91/10	VS-VSKH105/10	VS-VSKH71/10	VS-VSKJ91/10
VS-VSKC71/12	VS-VSKD91/12	VS-VSKH105/12	VS-VSKH71/12	VS-VSKJ91/12
VS-VSKC71/14	VS-VSKD91/14	VS-VSKH105/14	VS-VSKH71/14	VS-VSKJ91/14
VS-VSKC71/16	VS-VSKD91/16	VS-VSKH105/16	VS-VSKH71/16	VS-VSKJ91/16
VS-VSKC91/04	VS-VSKE56/04	VS-VSKH26/04	VS-VSKH91/04	VS-VSKL105/04
VS-VSKC91/06	VS-VSKE56/06	VS-VSKH26/06	VS-VSKH91/06	VS-VSKL105/06
VS-VSKC91/08	VS-VSKE56/08	VS-VSKH26/08	VS-VSKH91/08	VS-VSKL105/08
VS-VSKC91/10	VS-VSKE56/10	VS-VSKH26/10	VS-VSKH91/10	VS-VSKL105/10
VS-VSKC91/12	VS-VSKE56/12	VS-VSKH26/12	VS-VSKH91/12	VS-VSKL105/12
VS-VSKC91/14	VS-VSKE56/14	VS-VSKH26/14	VS-VSKH91/14	VS-VSKL105/14
VS-VSKC91/16	VS-VSKE56/16	VS-VSKH26/16	VS-VSKH91/16	VS-VSKL105/16
VS-VSKD56/04	VS-VSKE71/04	VS-VSKH41/04	VS-VSKJ56/04	VS-VSKL26/04
VS-VSKD56/06	VS-VSKE71/06	VS-VSKH41/06	VS-VSKJ56/06	VS-VSKL26/06
VS-VSKD56/08	VS-VSKE71/08	VS-VSKH41/08	VS-VSKJ56/08	VS-VSKL26/08
VS-VSKD56/10	VS-VSKE71/10	VS-VSKH41/10	VS-VSKJ56/10	VS-VSKL26/10

Vishay Intertechnology, Inc.

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VS-VSKL26/12	VS-VSKN26/08	VS-VSKT26/04	VS-VSKU105/14	VS-VSKV105/10
VS-VSKL26/14	VS-VSKN26/10	VS-VSKT26/06	VS-VSKU105/16	VS-VSKV105/12
VS-VSKL26/16	VS-VSKN26/12	VS-VSKT26/08	VS-VSKU26/04	VS-VSKV105/14
VS-VSKL41/04	VS-VSKN26/14	VS-VSKT26/10	VS-VSKU26/06	VS-VSKV105/16
VS-VSKL41/06	VS-VSKN26/16	VS-VSKT26/12	VS-VSKU26/08	VS-VSKV26/04
VS-VSKL41/08	VS-VSKN41/04	VS-VSKT26/14	VS-VSKU26/10	VS-VSKV26/06
VS-VSKL41/10	VS-VSKN41/06	VS-VSKT26/16	VS-VSKU26/12	VS-VSKV26/08
VS-VSKL41/12	VS-VSKN41/08	VS-VSKT41/04	VS-VSKU26/14	VS-VSKV26/10
VS-VSKL41/14	VS-VSKN41/10	VS-VSKT41/06	VS-VSKU26/16	VS-VSKV26/12
VS-VSKL41/16	VS-VSKN41/12	VS-VSKT41/08	VS-VSKU41/04	VS-VSKV26/14
VS-VSKL56/04	VS-VSKN41/14	VS-VSKT41/10	VS-VSKU41/06	VS-VSKV26/16
VS-VSKL56/06	VS-VSKN41/16	VS-VSKT41/12	VS-VSKU41/08	VS-VSKV41/04
VS-VSKL56/08	VS-VSKN56/04	VS-VSKT41/14	VS-VSKU41/10	VS-VSKV41/06
VS-VSKL56/10	VS-VSKN56/06	VS-VSKT41/16	VS-VSKU41/12	VS-VSKV41/08
VS-VSKL56/12	VS-VSKN56/08	VS-VSKT56/04	VS-VSKU41/14	VS-VSKV41/10
VS-VSKL56/14	VS-VSKN56/10	VS-VSKT56/06	VS-VSKU41/16	VS-VSKV41/12
VS-VSKL56/16	VS-VSKN56/12	VS-VSKT56/08	VS-VSKU56/04	VS-VSKV41/14
VS-VSKL71/04	VS-VSKN56/14	VS-VSKT56/10	VS-VSKU56/06	VS-VSKV41/16
VS-VSKL71/06	VS-VSKN56/16	VS-VSKT56/12	VS-VSKU56/08	VS-VSKV56/04
VS-VSKL71/08	VS-VSKN71/04	VS-VSKT56/14	VS-VSKU56/10	VS-VSKV56/06
VS-VSKL71/10	VS-VSKN71/06	VS-VSKT56/16	VS-VSKU56/12	VS-VSKV56/08
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VS-VSKL71/16	VS-VSKN71/12	VS-VSKT71/08	VS-VSKU71/04	VS-VSKV56/14
VS-VSKL91/04	VS-VSKN71/14	VS-VSKT71/10	VS-VSKU71/06	VS-VSKV56/16
VS-VSKL91/06	VS-VSKN71/16	VS-VSKT71/12	VS-VSKU71/08	VS-VSKV71/04
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VS-VSKL91/16	VS-VSKN91/12	VS-VSKT91/08	VS-VSKU91/04	VS-VSKV71/14
VS-VSKN105/04	VS-VSKN91/14	VS-VSKT91/10	VS-VSKU91/06	VS-VSKV71/16
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VS-VSKN105/14	VS-VSKT105/10	VS-VSKU105/06	VS-VSKU91/16	VS-VSKV91/12
VS-VSKN105/16	VS-VSKT105/12	VS-VSKU105/08	VS-VSKV105/04	VS-VSKV91/14
VS-VSKN26/04	VS-VSKT105/14	VS-VSKU105/10	VS-VSKV105/06	VS-VSKV91/16
VS-VSKN26/06	VS-VSKT105/16	VS-VSKU105/12	VS-VSKV105/08	

<b>ECONO</b>
VS-GB50WF60UT
VS-VSHPS1437
VS-S1683

<b>EMIPAK</b>
VS-ETL015Y120H

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IAP DBC				
VS-82-2541A	VS-VSKD166/14PBF	VS-VSKE196/16PBF	VS-VSKJ166/04PBF	VS-VSKT136/04PBF
VS-S1236	VS-VSKD166/16PBF	VS-VSKE236/04PBF	VS-VSKJ166/16PBF	VS-VSKT136/08PBF
VS-S1343	VS-VSKD196/04PBF	VS-VSKE236/12PBF	VS-VSKJ236/04PBF	VS-VSKT136/12PBF
VS-S1578	VS-VSKD196/08PBF	VS-VSKE236/16PBF	VS-VSKJ236/12PBF	VS-VSKT136/14PBF
VS-VSKC166/04PBF	VS-VSKD196/12PBF	VS-VSKH136/04PBF	VS-VSKJ236/16PBF	VS-VSKT136/16PBF
VS-VSKC166/08PBF	VS-VSKD196/16PBF	VS-VSKH136/08PBF	VS-VSKL136/04PBF	VS-VSKT142/08PBF
VS-VSKC166/12PBF	VS-VSKD236/04PBF	VS-VSKH136/12PBF	VS-VSKL136/08PBF	VS-VSKT142/12PBF
VS-VSKC166/16PBF	VS-VSKD236/08PBF	VS-VSKH136/14PBF	VS-VSKL136/12PBF	VS-VSKT142/14PBF
VS-VSKC196/04PBF	VS-VSKD236/12PBF	VS-VSKH136/16PBF	VS-VSKL136/14PBF	VS-VSKT142/16PBF
VS-VSKC196/08PBF	VS-VSKD236/16PBF	VS-VSKH142/08PBF	VS-VSKL136/16PBF	VS-VSKT152/04PBF
VS-VSKC196/12PBF	VS-VSKE166/04PBF	VS-VSKH142/12PBF	VS-VSKL142/08PBF	VS-VSKT162/04PBF
VS-VSKC196/16PBF	VS-VSKE166/08PBF	VS-VSKH142/14PBF	VS-VSKL142/12PBF	VS-VSKT162/08PBF
VS-VSKC236/04PBF	VS-VSKE166/12PBF	VS-VSKH142/16PBF	VS-VSKL142/14PBF	VS-VSKT162/12PBF
VS-VSKC236/12PBF	VS-VSKE166/14PBF	VS-VSKH162/04PBF	VS-VSKL142/16PBF	VS-VSKT162/14PBF
VS-VSKC236/16PBF	VS-VSKE166/16PBF	VS-VSKH162/08PBF	VS-VSKL162/08PBF	VS-VSKT162/16PBF
VS-VSKD166/04PBF	VS-VSKE196/04PBF	VS-VSKH162/12PBF	VS-VSKL162/12PBF	
VS-VSKD166/08PBF	VS-VSKE196/08PBF	VS-VSKH162/14PBF	VS-VSKL162/14PBF	
VS-VSKD166/12PBF	VS-VSKE196/12PBF	VS-VSKH162/16PBF	VS-VSKL162/16PBF	

MTK				
VS-110MT100KPBF	VS-60MT140KPBF	VS-82-0548	VS-112MT120KPBF	VS-54MT160KPBF
VS-110MT120KPBF	VS-60MT160KPBF	VS-82-0549	VS-112MT160KPBF	VS-54MT80KPBF
VS-110MT140KPBF	VS-60MT80KPBF	VS-82-0550	VS-112MT80KPBF	VS-82-0551
VS-110MT160KPBF	VS-70MT100KPBF	VS-82-2554	VS-113MT120KPBF	VS-82-0552
VS-110MT80KPBF	VS-70MT120KPBF	VS-90MT100KPBF	VS-113MT140KPBF	VS-82-0567
VS-130MT100KPBF	VS-70MT140KPBF	VS-90MT120KPBF	VS-113MT160KPBF	VS-91MT120KPBF
VS-130MT120KPBF	VS-70MT160KPBF	VS-90MT140KPBF	VS-113MT80KPBF	VS-91MT160KPBF
VS-130MT140KPBF	VS-70MT80KPBF	VS-90MT160KPBF	VS-51MT120KPBF	VS-91MT80KPBF
VS-130MT160KPBF	VS-82-0530	VS-90MT80KPBF	VS-51MT160KPBF	VS-92MT120KPBF
VS-130MT80KPBF	VS-82-0532PBF	VS-S1206	VS-51MT80KPBF	VS-92MT140KPBF
VS-160MT100KPBF	VS-82-0534PBF	VS-S1207	VS-52MT120KPBF	VS-92MT160KPBF
VS-160MT120KPBF	VS-82-0535	VS-104MT100KPBF	VS-52MT140KPBF	VS-92MT80KPBF
VS-160MT140KPBF	VS-82-0536	VS-104MT120KPBF	VS-52MT160KPBF	VS-93MT120KPBF
VS-160MT160KPBF	VS-82-0537	VS-104MT160KPBF	VS-52MT80KPBF	VS-93MT160KPBF
VS-160MT80KPBF	VS-82-0538	VS-111MT100KPBF	VS-53MT120KPBF	VS-93MT160KS90PBF
VS-40MT160KPBF	VS-82-0539	VS-111MT120KPBF	VS-53MT160KPBF	VS-94MT120KPBF
VS-60MT100KPBF	VS-82-0540	VS-111MT160KPBF	VS-53MT80KPBF	VS-94MT160KPBF
VS-60MT120KPBF	VS-82-0547	VS-111MT80KPBF	VS-54MT120KPBF	VS-94MT80KPBF

MTP BRIDGE			
VS-100MT160PAPBF	VS-40MT160PAPBF	VS-70MT160PAPBF	VS-100MT060WSP
VS-100MT160PBPBF	VS-40MT160PBPBF	VS-70MT160PBPBF	VS-70MT060WSP
VS-100MT160P-P	VS-40MT160P-P	VS-70MT160P-P	

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PACE PAK				
VS-82-0413	VS-P101W	VS-P124	VS-P404	VS-S1288
VS-82-0418	VS-P102	VS-P125	VS-P404W	VS-S1399
VS-82-0419	VS-P102KW	VS-P131	VS-P405	VS-S1646
VS-82-0429	VS-P102W	VS-P132	VS-P405KW	VS-SHP101
VS-82-0433	VS-P103	VS-P133	VS-P405W	VS-SHP102W
VS-82-2258	VS-P103KW	VS-P134	VS-P421	VS-SHP103W
VS-82-2547	VS-P103W	VS-P135	VS-P422	VS-SHP105W
VS-82-6049	VS-P104	VS-P401	VS-P423	VS-SHP135
VS-IA15B	VS-P104W	VS-P401W	VS-P424	VS-SHP405KW
VS-IA16B	VS-P105	VS-P402	VS-P425	VS-SHP405W
VS-IA59	VS-P105KW	VS-P402KW	VS-P431	VS-SHP435
VS-IA79A	VS-P105W	VS-P402W	VS-P432	
VS-IC44	VS-P121	VS-P403	VS-P433	
VS-P101	VS-P122	VS-P403KW	VS-P434	
VS-P101KW	VS-P123	VS-P403W	VS-P435	

SOT-227
VS-S1223P
VS-SA60BA60
VS-S1602
VS-SA61BA60

Thyristor Stud				
VS-110RKI120	VS-111RKI80PBF	VS-68-6023PBF	VS-80RIA120PBF	VS-S1068
VS-110RKI120M	VS-180RKI100	VS-68-6550	VS-80RIA40	VS-S1068PBF
VS-110RKI120MPBF	VS-180RKI100PBF	VS-68-7100	VS-80RIA40M	VS-S1110
VS-110RKI120PBF	VS-180RKI40	VS-68-7100PBF	VS-80RIA40MPBF	VS-S1110PBF
VS-110RKI40	VS-180RKI40PBF	VS-68-7114	VS-80RIA40PBF	VS-S1217
VS-110RKI40M	VS-180RKI80	VS-68-7114PBF	VS-80RIA80	VS-S1217PBF
VS-110RKI40PBF	VS-180RKI80PBF	VS-78-5144	VS-80RIA80PBF	VS-S1226
VS-110RKI80	VS-181RKI100	VS-78-5144PBF	VS-81RIA120	VS-S1226PBF
VS-110RKI80PBF	VS-181RKI100PBF	VS-78-5464	VS-81RIA120PBF	VS-S1525
VS-111RKI120	VS-181RKI40	VS-78-5572	VS-81RIA40	VS-S840
VS-111RKI120M	VS-181RKI40PBF	VS-78-5572PBF	VS-81RIA40PBF	VS-S944B
VS-111RKI120MPBF	VS-181RKI80	VS-78-6175A	VS-81RIA80	VS-S944BPBF
VS-111RKI120PBF	VS-181RKI80PBF	VS-78-6178	VS-81RIA80M	
VS-111RKI40	VS-68-5650	VS-78-6181	VS-81RIA80PBF	
VS-111RKI40PBF	VS-68-5650PBF	VS-78-6182	VS-82RIA120	
VS-111RKI80	VS-68-6023	VS-80RIA120	VS-G1246TH	

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T MODULE				
VS-82-0412	VS-82-2555	VS-T50RIA40	VS-T70RIA20	VS-T90RIA120S90
VS-82-0520	VS-82-5033	VS-T50RIA60	VS-T70RIA40	VS-T90RIA20
VS-82-0521	VS-82-6250	VS-T50RIA60S90	VS-T70RIA60	VS-T90RIA40
VS-82-0522	VS-T50RIA100	VS-T50RIA80	VS-T70RIA80	VS-T90RIA60
VS-82-0523	VS-T50RIA120	VS-T70RIA100	VS-T90RIA10	VS-T90RIA60S90
VS-82-2219	VS-T50RIA120S90	VS-T70RIA120	VS-T90RIA100	VS-T90RIA80
VS-82-2220	VS-T50RIA20	VS-T70RIA120S90	VS-T90RIA120	

TO48				
VS-10RIA10	VS-16RIA20M	VS-22RIA80M	VS-2N682	VS-68-6651
VS-10RIA100	VS-16RIA40	VS-25RIA10	VS-2N683	VS-68-6652
VS-10RIA100M	VS-16RIA40M	VS-25RIA100	VS-2N684	VS-68-6838
VS-10RIA120	VS-16RIA60	VS-25RIA100M	VS-2N685	VS-68-7068
VS-10RIA120M	VS-16RIA60M	VS-25RIA120	VS-2N686	VS-68-7074
VS-10RIA20	VS-16RIA80	VS-25RIA120M	VS-2N687	VS-68-7110
VS-10RIA40	VS-16RIA80M	VS-25RIA120MS90	VS-2N688	VS-78-6062
VS-10RIA40M	VS-22RIA10	VS-25RIA120S90	VS-2N689	VS-G1331TH
VS-10RIA60	VS-22RIA100	VS-25RIA20	VS-2N690	VS-IB04
VS-10RIA80	VS-22RIA100M	VS-25RIA20M	VS-2N691	VS-IB41
VS-10RIA80M	VS-22RIA120	VS-25RIA40	VS-2N692	VS-IB68
VS-16RIA10	VS-22RIA120M	VS-25RIA40M	VS-68-5326	VS-IB96
VS-16RIA100	VS-22RIA120S90	VS-25RIA60	VS-68-5389	VS-IB97
VS-16RIA100M	VS-22RIA20	VS-25RIA60M	VS-68-5730	VS-S1262
VS-16RIA10M	VS-22RIA20M	VS-25RIA80	VS-68-5732	VS-STR16S12P
VS-16RIA120	VS-22RIA40	VS-25RIA80M	VS-68-6015	VS-STR22S12P
VS-16RIA120M	VS-22RIA40M	VS-2N5205	VS-68-6019	VS-STR25S16P
VS-16RIA120MS90	VS-22RIA60	VS-2N5206	VS-68-6313	
VS-16RIA120S90	VS-22RIA60M	VS-2N5207	VS-68-6364	
VS-16RIA20	VS-22RIA80	VS-2N681	VS-68-6569	

TO65				
VS-50RIA10	VS-50RIA40	VS-68-6194A	VS-68-7178	VS-IC12
VS-50RIA100	VS-50RIA40M	VS-68-6229	VS-I431C	VS-IC78
VS-50RIA100M	VS-50RIA60	VS-68-6283	VS-I433B	VS-S1338
VS-50RIA120	VS-50RIA60M	VS-68-6357	VS-I472B	VS-STR50S02P
VS-50RIA120M	VS-50RIA80	VS-68-6367	VS-I575	VS-STR50S16P
VS-50RIA120S90	VS-50RIA80M	VS-68-6602	VS-I617B	VS-STR50S16PS90
VS-50RIA160MS90	VS-68-5502	VS-68-6687	VS-I619B	VS-VSHP51374
VS-50RIA20	VS-68-5820	VS-68-6767	VS-I877	
VS-50RIA20M	VS-68-6051	VS-68-6852	VS-I962	

Additional part numbers released in the above packages after the effective date of this PCN will be covered by this announcement.

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ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT

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

**TIME SCHEDULE:** After **June 2<sup>nd</sup>, 2014** Vishay will start to implement the above changes

**SAMPLE AVAILABILITY:** On customer request

**PRODUCT IDENTIFICATION:** N/A

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

**This PCN is considered approved, without further notification, unless we receive specific customer concerns before May 5<sup>th</sup>, 2014 or as specified by contract.**

**ISSUED BY:**

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**For further information, please contact your regional Vishay office.**

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**ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT**

**Qualification - MOAT Diode up to 1600V**

STRESS	CONDITIONS	TEST POINTS	SAMPLES	RESULTS
HTRB	Tjmax @80% rated voltage 1000hrs	0 168 500 1000	18	0/18
TC	-55°C/150°C 200 cycles	0 50 100 200	18	0/18
H3TRB	85°C 85%HR @100V 1000hrs	0 168 500 1000	18	0/18
IOL	DT=100°C 3' Ton/Toff 5000 cycles	0 2500 5000	18	0/18

**Qualification - THYRISTORS up to 1600V**

STRESS	CONDITIONS	TEST POINTS	SAMPLES	RESULTS
HTRB	Tjmax @80% rated voltage 1000hrs	0 168 500 1000	43	0/43
TC	-55°C/150°C 200 cycles	0 50 100 200	18	0/18
TC	-55°C/150°C 1000 cycles	0 250 500 1000	9	0/9
TC	-40°C/125°C 200 cycles	0 50 100 200	16	0/16
UHASt	130°C 85%RH 96hrs	0 48 96	9	0/9
H3TRB	85°C 85%HR @100V 1000hrs	0 168 500 1000	27	0/27
IOL	DT=80°C 5000 cycles	0 2500 5000	18	0/18
IOL	DT=100°C 5000 cycles	0 2500 5000	9	0/9
IOL	DT=80°C 2000 cycles	0 1000 2000	16	0/16