



# Product Change Notification



Product Group: Diodes Division / September 13, 2019 / PCN-DD-021-2019 Rev 0

## Additional Assembly Site and Mold Compound change

**DESCRIPTION OF CHANGE:** Vishay Semiconductors announces the introduction of an additional assembly site for below commercial TO-247 Part Numbers.  
The new subcontractor has received international quality system and environmental compliance certification ISO9001 and ISO14001.  
The mold compound will change from SG-8200DTV to EME-E-500HAC.  
The new mold compound is halogen free as the current one.  
Package Outline Dimension will be consolidated as illustrated in annex 3.

**CLASSIFICATION OF CHANGE:** Assembly Site  
Molding  
Form, Fit, Function

**REASON FOR CHANGE:** Capacity expansion for improving delivery support and discontinuation of SG-8200DTV Mold Compound.

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

**PRODUCT CATEGORY:** Diodes & Rectifiers

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

Family	Part Number
FREDS	VS-30CPH03-N3
FREDS	VS-30CPU04-N3
FREDS	VS-30EPH03-N3
FREDS	VS-30EPH06-N3
FREDS	VS-60APH03-N3
FREDS	VS-60APU02-N3
FREDS	VS-60APU04-N3
FREDS	VS-60APU06-N3
FREDS	VS-60CPH03-N3
FREDS	VS-60CPU02-N3
FREDS	VS-60CPU03W-N3
FREDS	VS-60CPU04-N3
FREDS	VS-60CPU06-N3
FREDS	VS-60EPU02-N3
FREDS	VS-60EPU04-N3
FREDS	VS-60EPU06-N3
FREDS	VS-80CPH03-N3
FREDS	VS-80CPU02-N3
FREDS	VS-APH3006-N3
FREDS	VS-APU3006-N3

<b>Family</b>	<b>Part Number</b>
FREDS	VS-APU6006-N3
FREDS	VS-CPU6006-N3
FREDS	VS-EPH3006-N3
FREDS	VS-EPU3006-N3
FREDS	VS-EPU6006-N3
FREDS	VS-MUR3020WT-N3
FREDS	VS-96-1050-N3
HEXFREDS	VS-HFA06PB120-N3
HEXFREDS	VS-HFA08PB120-N3
HEXFREDS	VS-HFA08PB60-N3
HEXFREDS	VS-HFA12PA120C-N3
HEXFREDS	VS-HFA15PB60-N3
HEXFREDS	VS-HFA16PA120C-N3
HEXFREDS	VS-HFA16PA60C-N3
HEXFREDS	VS-HFA16PB120-N3
HEXFREDS	VS-HFA25PB60-N3
HEXFREDS	VS-HFA30PA60C-N3
HEXFREDS	VS-HFA30PA60C-N3R
HEXFREDS	VS-HFA30PB120-N3
HEXFREDS	VS-HFA32PA120C-N3
HEXFREDS	VS-HFA50PA60C-N3
STANDARD DIODES	VS-30APF02-M3
STANDARD DIODES	VS-30APF04-M3
STANDARD DIODES	VS-30APF06-M3
STANDARD DIODES	VS-30APF10-M3
STANDARD DIODES	VS-30APF12-M3
STANDARD DIODES	VS-30EPF02-M3
STANDARD DIODES	VS-30EPF04-M3
STANDARD DIODES	VS-30EPF06-M3
STANDARD DIODES	VS-30EPF10-M3
STANDARD DIODES	VS-30EPF12-M3
STANDARD DIODES	VS-40APS16-M3
STANDARD DIODES	VS-40EPF02-M3
STANDARD DIODES	VS-40EPF04-M3
STANDARD DIODES	VS-40EPF06-M3
STANDARD DIODES	VS-40EPF10-M3
STANDARD DIODES	VS-40EPF12-M3
STANDARD DIODES	VS-40EPS08-M3
STANDARD DIODES	VS-40EPS12-M3
STANDARD DIODES	VS-40EPS16-M3

Family	Part Number
STANDARD DIODES	VS-60APF02-M3
STANDARD DIODES	VS-60APF04-M3
STANDARD DIODES	VS-60APF06-M3
STANDARD DIODES	VS-60APF10-M3
STANDARD DIODES	VS-60APF12-M3
STANDARD DIODES	VS-60EPF02-M3
STANDARD DIODES	VS-60EPF04-M3
STANDARD DIODES	VS-60EPF06-M3
STANDARD DIODES	VS-60EPF10-M3
STANDARD DIODES	VS-60EPF12-M3
STANDARD DIODES	VS-60EPS08-M3
STANDARD DIODES	VS-60EPS12-M3
STANDARD DIODES	VS-60EPS16-M3
STANDARD DIODES	VS-80-1320-M3
STANDARD DIODES	VS-80APF02-M3
STANDARD DIODES	VS-80APF04-M3
STANDARD DIODES	VS-80APF06-M3
STANDARD DIODES	VS-80APF10-M3
STANDARD DIODES	VS-80APF12-M3
STANDARD DIODES	VS-80APS08-M3
STANDARD DIODES	VS-80APS08-M3D
STANDARD DIODES	VS-80APS12-M3
STANDARD DIODES	VS-80APS16-M3
THYRISTORS	VS-30TPS08-M3
THYRISTORS	VS-30TPS12-M3
THYRISTORS	VS-30TPS16-M3
THYRISTORS	VS-40TPS08A-M3
THYRISTORS	VS-40TPS08-M3
THYRISTORS	VS-40TPS08-M3D
THYRISTORS	VS-40TPS12A-M3
THYRISTORS	VS-40TPS12-M3
THYRISTORS	VS-40TPS12-M3D
THYRISTORS	VS-40TPS16-M3

**VISHAY BRAND(s):**

Vishay Semiconductors

**TIME SCHEDULE:**

Starting from November 13, 2019 Vishay will gradually start to ship from the new location and will gradually use the new mold compound.

**SAMPLE AVAILABILITY:**

On customer request

**PRODUCT IDENTIFICATION:** Products manufactured at new location will be identified by the new plant digit of the data code marked on 2<sup>nd</sup> line of the part.

**QUALIFICATION DATA:** See annex 1 & 2

**This PCN is considered approved, without further notification, unless we receive specific customer written concerns before November 13, 2019 or as specified by contract**

**ISSUED BY:** FREDS, HEXFREDS, STANDARD DIODES AND THYRISTORS Alessandro Bonaudo, Vishay Diodes Product Marketing  
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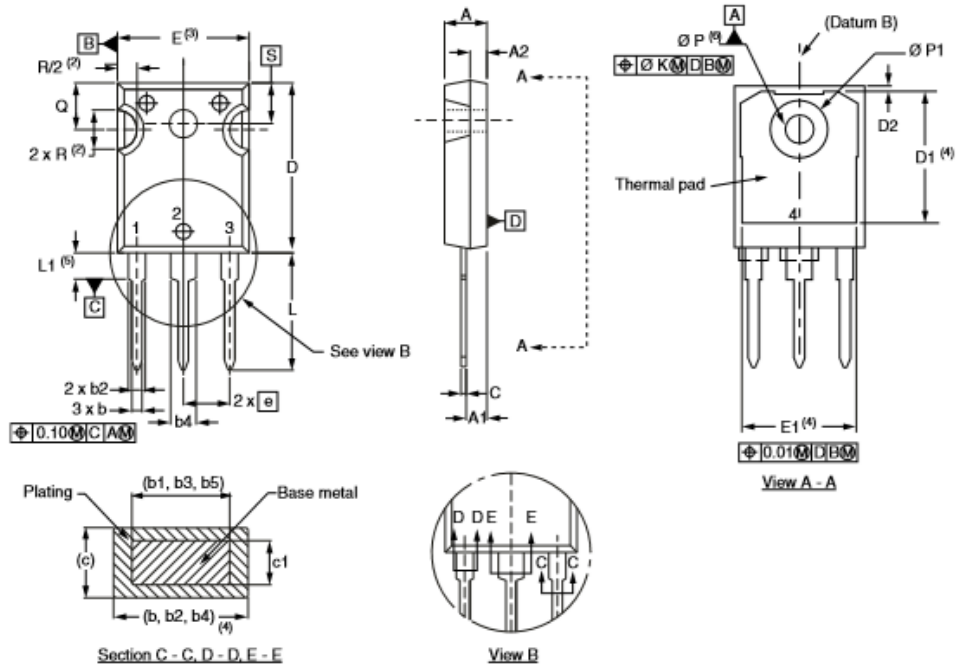




# ANNEX 3 - POD

## TO-247AC 3L

**DIMENSIONS** in millimeters and inches



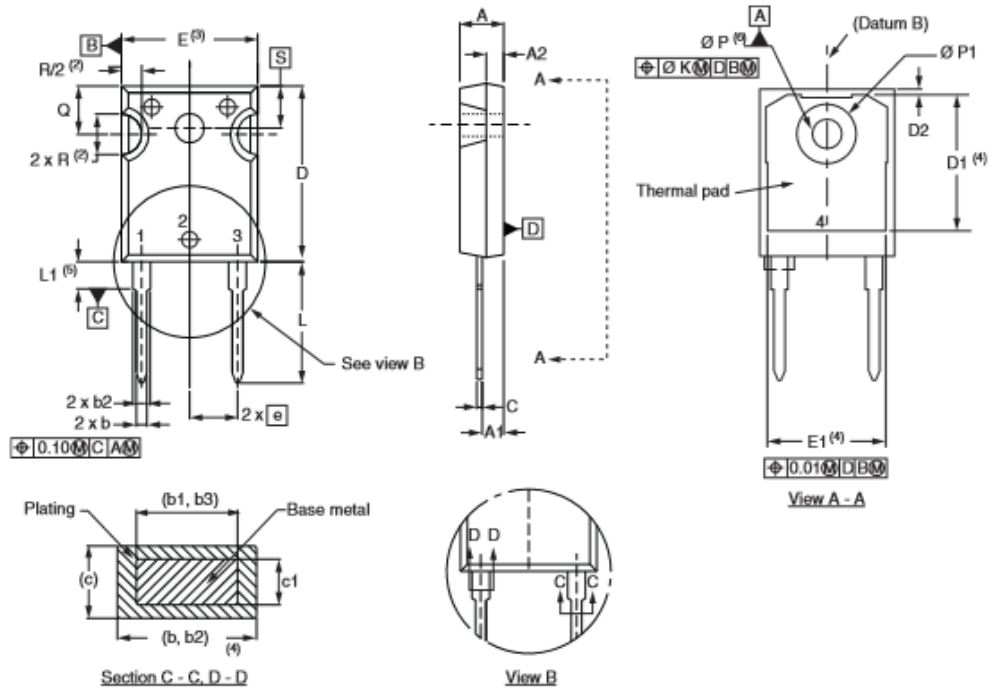
SYMBOL	MILLIMETERS		INCHES		NOTES
	MIN.	MAX.	MIN.	MAX.	
A	4.65	5.31	0.183	0.209	
A1	2.21	2.59	0.087	0.102	
A2	1.17	1.37	0.046	0.054	
b	0.99	1.40	0.039	0.055	
b1	0.99	1.35	0.039	0.053	
b2	1.65	2.39	0.065	0.094	
b3	1.65	2.34	0.065	0.092	
b4	2.59	3.43	0.102	0.135	
b5	2.59	3.38	0.102	0.133	
c	0.38	0.89	0.015	0.035	
c1	0.38	0.84	0.015	0.033	
D	19.71	20.70	0.776	0.815	3
D1	13.08	-	0.515	-	4
D2	0.51	1.35	0.020	0.053	
E	15.29	15.87	0.602	0.625	3
E1	13.46	-	0.53	-	
e	5.46 BSC		0.215 BSC		
Ø K	0.254		0.010		
L	14.20	16.10	0.559	0.634	
L1	3.71	4.29	0.146	0.169	
Ø P	3.56	3.66	0.14	0.144	
Ø P1	-	7.39	-	0.291	
Q	5.31	5.69	0.209	0.224	
R	4.52	5.49	0.178	0.216	
S	5.51 BSC		0.217 BSC		

**Notes**

- (1) Dimensioning and tolerancing per ASME Y14.5M-1994
- (2) Contour of slot optional
- (3) Dimension D and E do not include mold flash. Mold flash shall not exceed 0.127 mm (0.005") per side. These dimensions are measured at the outermost extremes of the plastic body
- (4) Thermal pad contour optional with dimensions D1 and E1
- (5) Lead finish uncontrolled in L1
- (6) Ø P to have a maximum draft angle of 1.5 to the top of the part with a maximum hole diameter of 3.91 mm (0.154")
- (7) Outline conforms to JEDEC® outline TO-247 with exception of dimension Q

# TO-247AC 2L

**DIMENSIONS** in millimeters and inches



SYMBOL	MILLIMETERS		INCHES		NOTES	SYMBOL	MILLIMETERS		INCHES		NOTES
	MIN.	MAX.	MIN.	MAX.			MIN.	MAX.	MIN.	MAX.	
A	4.65	5.31	0.183	0.209		E	15.29	15.87	0.602	0.625	3
A1	2.21	2.59	0.087	0.102		E1	13.46	-	0.53	-	
A2	1.17	1.37	0.046	0.054		e	5.46 BSC		0.215 BSC		
b	0.99	1.40	0.039	0.055		$\varnothing K$	0.254		0.010		
b1	0.99	1.35	0.039	0.053		L	14.20	16.10	0.559	0.634	
b2	1.65	2.39	0.065	0.094		L1	3.71	4.29	0.146	0.169	
b3	1.65	2.34	0.065	0.092		$\varnothing P$	3.56	3.66	0.14	0.144	
c	0.38	0.89	0.015	0.035		$\varnothing P1$	-	7.39	-	0.291	
c1	0.38	0.84	0.015	0.033		Q	5.31	5.69	0.209	0.224	
D	19.71	20.70	0.776	0.815	3	R	4.52	5.49	0.178	0.216	
D1	13.08	-	0.515	-	4	S	5.51 BSC		0.217 BSC		
D2	0.51	1.35	0.020	0.053							

**Notes**

- (1) Dimensioning and tolerancing per ASME Y14.5M-1994
- (2) Contour of slot optional
- (3) Dimension D and E do not include mold flash. Mold flash shall not exceed 0.127 mm (0.005") per side. These dimensions are measured at the outermost extremes of the plastic body
- (4) Thermal pad contour optional with dimensions D1 and E1
- (5) Lead finish uncontrolled in L1
- (6)  $\varnothing P$  to have a maximum draft angle of 1.5 to the top of the part with a maximum hole diameter of 3.91 mm (0.154")
- (7) Outline conforms to JEDEC® outline TO-247 with exception of dimension Q