

## Microsemi Corporation

February 27, 2017

### Process Change Notification No: 2017-005

**Change Classification: Minor**

### Subject: Change of Lead Attach Used on Rectifier and Zener Devices

#### Description of Change:

This PCN is a follow-up to the previously issued PCN 2012-010 and includes additional part numbers to notify the user community that Microsemi has modified the assembly process to change the lead attach preform material from gold / germanium (Au/Ge) to Silfos (Ag/Cu/P.) This change in preform material has also resulted in a change to the lead plating scheme with the discontinued use of a nickel barrier layer beneath the tin/lead (Sn/Pb) axial lead finish.

In order to standardize processes, the surface mount versions have also been converted to silfos lead attach; the lead finish on these parts has not changed.

#### Application Impact:

Date codes prior to, and after this change, meet all lead finish and solderability requirements of MIL-PRF-19500 and MIL-STD-750, test method 2026.

#### Method of Identifying Changed Product:

See list below for applicable date code by part number.

#### Products Affected by this Change:

Slash Sheet	Part Numbers	DLA Approval Letter	Production date code	
			JAN thru JANTXV	JANS
/477	JAN, JANTX, JANTXV AND JANS1N5807, 1N5809, 1N5811	VQE-12-024635	1233, PCN 2012-010	1123, PCN 2012-010
/503	JAN, JANTX, JANTXV1N6076, 1N6077, 1N6078	VQE-12-024635	1233, PCN 2012-010	-
/477	JAN, JANTX, JANTXV AND JANS1N5807US, 1N5809US, 1N5811US	VQE-13-026881	>=1347	>=1347
/477	JAN, JANTX, JANTXV AND JANS1N5802, 1N5804, 1N5806; US; USR	VQE-14-028003	>=L1522	>=1441
/429	JAN, JANTX, JANTXV 1N5615, 1N5617, 1N5619, 1N5621, 1N5623; US	VQE-15-029230	>=L1507	Au/Ge
/359	JAN, JANTX, JANTXV 1N4942, 1N4944, 1N4946	VQE-15-029230	>=L1531	-
/420	JAN, JANTX, JANTXV, & JANS 1N5550 through 1N5554; US	VQE-15-029124	>= L1537	>=1517

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Slash Sheet	Part Numbers	DLA Approval Letter	Production date code	
			JAN thru JANTXV	JANS
/411	JAN, JANTX, JANTXV, & JANS 1N5415 through 1N5420; US	VQE-15-029124	>= L1537	>=1517
/424	JAN, JANTX, JANTXV 1N5186 through 1N5190	VQE-15-029124	>= L1537	-
/427	JAN, JANTX, JANTXV, & JANS1N5622, JANS1N5620, 1N5614, 1N5616, 1N5618	VQE-13-026670	>=1331	>=1331
/286	JAN, JANTX, JANTXV1N4245 - 1N4249	VQE-13-026670	>=1343	>=1343
/228	JAN, JANTX1N3611 - 1N3614, 1N3957	VQE-13-026670	>=1333	>=1333
/585	JAN-JANTX, JANTXVIN6620,1N6621, 1N6622, 1N6625	VQE-15-029175	>=1546	Au/Ge
/356	JAN, JANTX, JANTXV, AND JANS 1N4954 through 1N4981; US	VQE-15-029442	>=L1542	>=1540
/406	JAN, JANTX, JANTXV, AND JANS 1N4462 through 1N4496; US	VQE-14-028034	>=L1502	>=1449

### Qualification Data:

Re-qualification reports, in accordance with the requirements of MIL-PRF-19500, were submitted to DLA, Land and Maritime, and approved with the letter numbers referenced above.

### Contact Information:

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Regards,

Microsemi Corporation

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