



**DEFENSE LOGISTICS AGENCY**  
 LAND AND MARITIME  
 POST OFFICE BOX 3990  
 COLUMBUS, OH 43218-3990

May 14, 2014

Ms. Beth Parker  
 Microsemi Lawrence  
 6 Lake Street  
 Lawrence, MA 01841-3011

Dear Ms. Parker:

Re: Notification of Re-Qualification, MIL-PRF-19500P, FSC 5961; VQ (VQE-14-028003), CAGE Code 43611, Control # 042700

Re-Qualification of your product is granted under the current issue of the specification as a result of successful qualification testing of device type JAN1N5806 to Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961, and performance specification /477K. This request was to change the lead brazing preform from Au/Ge to Ag/Cu/P to eliminate the need for Ni underplate. Extension is granted to the other devices listed below as allowed by paragraph E.4.2.2 (Qualification by Extension). Therefore, your products will be listed as shown below in Qualified Manufacturers List (QML) 19500. This qualification is effective as of May 12, 2014. The starting lot date code is 1316.

The qualification lot thermal impedance conditions and upper limits are as follows (subject to change after 5 lots with the approval of the qualifying activity):

$I_M$	$I_H$	$t_H$	$t_{MD}$	$Z_{\theta JX}$ (Screening)	$Z_{\theta JX}$ (QCI)
10 mA	10 A	10ms	70 $\mu$ s	3.9 °C/W max	4.0 °C/W max

Government Designation	Lead Finish	ESD Class <u>6</u> /	Manufacturer Designation	Test Report Reference	Perform. Spec.	Manufacturer Name & Address
** 1N5802; 1N5804; 1N5806; US;URS	A	NS	CDWR	19500-2258-08	/477	Same as above
S 1N5802; 1N5804; 1N5806; US;URS				19500-2354-08		

6/ Testing is compliant to the latest revision of MIL-STD-750 Test Method 1020.3

\*\* Includes JAN, JANTX & JANTXV quality levels

S Includes JANS quality level only

Plant 1: Same as above

This qualification approval is based upon test report numbers 19500-2258-08 (JAN-JANTXV) and 19500-2354-08 (JANS) for your original die & package, your data and letter dated April 18, 2014 requesting requalification, and your email dated May 12, 2014. Test report 19500-4185-14 has been assigned but will not be reflected in the QML. This qualification is subject to the conditions as stated in the SD-6 and DOD 4120.24M.

Because we are held responsible for the accuracy and currency of this Qualified Manufacturers List, please let us know if your company discontinues production of these products. Also, manufacturers are required to inform this office immediately after learning of a potential issuance of a GIDEP alert, problem advisory, or other problem notification on their QML product. If you have any questions, please contact Mr. DelloStritto 614-692-0616.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
 Chief  
 Sourcing and Qualifications Division