



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

September 24, 2014

Ms. Beth Parker  
 Director of Quality Assurance  
 Microsemi Corporation/Lawrence Division  
 6 Lake Street  
 Lawrence, MA 01841

Dear Ms. Parker:

Re: Notification of Qualification Approval, MIL-PRF-19500P, Amend 1, FSC 5961, VQ (VQE-14-028618),  
 CAGE Code: 43611, Control Number: 044278

Qualification of your product is granted under the current issue of the specification as a result of successful qualification testing of device type JAN1N6320 to Performance Specification MIL-PRF-19500P, Amend 1, Semiconductor Devices, FSC 5961, and performance specification /533, Rev J, Amend 1. This is an initial qualification of the Microsemi semiconductor assembly facility in Laguna, Philippines and is a qualification vehicle for the hard glass D body axial and surface mount packages. Qualification by extension, as allowed by paragraph E.4.2.2 Qualification by Extension of MIL-PRF-19500P, Amend 1, is granted to the other devices listed below. Therefore, your products will be listed as shown below in Qualified Manufacturers List (QML) 19500. The effective date of this qualification is September 24, 2014. The starting lot date code is L1410.

The qualification lot Thermal Impedance conditions and upper limits are as follows (subject to change after 5 lots):

Package	I <sub>M</sub>	I <sub>H</sub>	t <sub>H</sub>	t <sub>MD</sub>	Z <sub>θJX</sub> (Screening)	Z <sub>θJX</sub> (QCI)
DO-35/US	1 mA	2 A	10 ms	70 μs	12.0°C/W max	14.5°C/W max

Government Designation	Lead Finish	ESD Class 6/	Manufacturer Designation	Test Report Reference	Prf. Spec	Manufacturer Name & Address
**1N6309 through **1N6320; US C; CUS;D; DUS	A	NS	CDWR	19500-4261-14	/533	Same as above

Assembly (18): Microsemi Philippines Laguna (MSPL)  
 (Date Code Prefix: L)

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

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

This qualification approval is based upon test report number 19500-4861-14 for your die and package, your report dated July 8, 2014, and subsequent emails. This qualification is subject to the conditions as stated in 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 on this letter, contact Mr. DelloStritto at 614-692-0616.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
 Chief  
 Sourcing and Qualifications Division