



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

September 26, 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, FSC 5961, VQ (VQE-14-028639), CAGE Code: 43611, Control Number: 044302

Qualification of your product is granted under the current issue of the specification as a result of successful qualification testing of device type JAN1N6642US to Performance Specification MIL-PRF-19500P, Amend 1, Semiconductor Devices, FSC 5961, and performance specification /578M. 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, Category 1, 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 26, 2014. The starting lot date code is L1412.

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

| Package | I _M | I _H | t _H | t _{MD} | Z _{θJX} (Screening/QCI) |
|----------|----------------|----------------|----------------|-----------------|----------------------------------|
| DO-35/US | 1 mA | 2 A | 10 ms | 70 μs | 24.0 °C/W max |

| Government Designation | Lead Finish | ESD Class 6/ | Manufacturer Designation | Test Report Reference | Prf. Spec | Manufacturer Name & address |
|---|-------------|--------------|--------------------------|-----------------------|-----------|-----------------------------|
| **1N5194US through **1N5196US | A | 3B | CDWR | 19500-4302-14 | /118 | Same as above |
| **1N3595US, AUS | A | 3B | | | /241 | |
| **1N6321,US,C,CUS,D,DUS through **1N6355,US,C,CUS,D,DUS | A | NS | | | /533 | |
| **1N6638,U,US | A | 3B | | | /578 | |
| **1N6642,U,US | | | | | | |
| **1N6643,U,US | | | | | | |
| **1N6639,US through **1N6641,US | A | 3B | | | /609 | |

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 19500-4302-14 for your die and package, your report dated July 25, 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. Deslich at 614-692-0593.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE
Chief
Sourcing and Qualifications Division