



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

April 29, 2013

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

Dear Ms. Parker:

Re: Notification of Qualification by Extension, MIL-PRF-19500P, Amend 1, FSC 5961; VQ (VQE-13-026241), CAGE Code 43611, Control # 039121

Qualification by extension is granted the devices listed below under the current issue of the specification as a result of successful qualification testing of device type JANTXV1N6843CCU3 as allowed by paragraph E 4.2.2 of Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961, and performance specification /681B. Therefore, your products will be listed as shown below in Qualified Manufacturers List (QML) 19500. This qualification is effective as of April 22, 2013. The starting lot date code is R1145.

The qualification lot Thermal Impedance conditions and upper limits for each leg 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	100 $\mu$ s	1.38 °C/W max	1.5 °C/W max

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Perform Spec.	Manufacturer Name & Address
** 1N6840U3;1N6841U3	3A	CDWR	19500-3694-13	/678B	Same as above
** 1N6842U3				/680A	

Plant 11: Microsemi AMSG  
 11861 Western Avenue  
 Garden Grove, CA 92641  
 (Wafer Fabrication)

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

This qualification approval is based upon test report number 19500-3694-13 for die & package, and your email letter dated April 4, 2013, 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