



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

IN REPLY  
REFER TO

DLA LAND AND MARITIME-VQ (VQE-11-022246/Mr. DelloStritto/614-692-0616)

March 30, 2011

SUBJECT: Notification of Qualification, MIL-PRF-19500N, FSC 5961; CAGE: 43611

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

Dear Ms. Parker:

Qualification of your product is granted under the current issue of the specification as a result of successful testing of device type JANS2N3765 to Performance Specification MIL-PRF-19500N, Semiconductor Devices, FSC 5961, and performance specification /396, Rev K. Qualification by 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 the Qualified Manufacturers List (QML) 19500. The effective date of this qualification is March 29, 2011. The beginning lot date code for this qualification is 0852.

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

Package	I <sub>M</sub>	I <sub>H</sub>	t <sub>H</sub>	t <sub>MD</sub>	Z <sub>o</sub> jx (Screening)	Z <sub>o</sub> jx (QCI)
T0-46	5 mA	100mA	10 ms	70 μs	11.69 °C/W max	12.00°C/W max

*NOTE: All other device packages other than the T0-46 do not have established thermal conditions. As other packages are produced, this letter will be updated to add those conditions.*

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf Spec	Manufacturer Name & Address
S 2N3765; 2N3763; L;UA;U4 S 2N3764; 2N3765 JANHCA2N3765 JANKCA2N3765	NS	CDWR	19500-3103-11	/396	Same as above

S Includes JANS quality level only

Plant 1: Same as above

This qualification approval is based upon test report number 19500-3103-11 for your die and package, your letter dated November 23, 2010, and your email dated March 14, 2011. 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.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
 Chief  
 Sourcing and Qualifications Division