



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

August 29, 2016

Mr. Harry James
 Semicoa Corporation
 333 McCormick Avenue
 Costa Mesa, CA 92626

Dear Mr. James:

Re: Notification of Re-Qualification, MIL-PRF-19500P, Amend 3, FSC 5961, VQ (VQE-16-030677),
 CAGE 34156; Control Number: 051956.

Re-Qualification of your product is granted based on successful testing for device JANS2N2222A as allowed by paragraph E.4.1 of Performance Specification MIL-PRF-19500P, Amendment 3, Semiconductor Devices, FSC 5961 and performance specification sheet 255, Rev AA. Extension is granted to the other device types listed below as allowed by paragraph E.4.2.2 of MIL-PRF-19500. This re-qualification was initiated to validate the reliability of the 4-inch wafer to be used in the manufacturing of QML products. The products manufactured using the 3-inch wafer (as shown in the table below with footnote/3) will continue to be listed until stock is depleted. Therefore, your products will be listed as shown below in the Qualified Manufacturers List (QML) 19500. The starting lot date code is 1601. The effective date of this qualification is August 25, 2016.

Thermal Conditions (subject to change after 5 lots with approval from the qualifying activity)							
Package	V_{ce}	I_m	I_H	t_H	t_{MD}^*	$Z_{\theta JX}$ (Screening)	$Z_{\theta JX}$ (QCI)
TO-18	10 V	1mA	50mA	30 msec	100 μ sec	41.0°C/W max	43.0°C/W max
*Correlated with t_{MD} 70 μ s							

Government Designation	Lead Finish	ESD Class <u>6/</u>	Manufacturer Designation	Test Report Reference	Prf. Spec	Manufacturer Name & Address
S 2N2221A; AL	A	3A	CEJ	19500-4752-16	/255	Same as above
S 2N2221A 3/	A	1B		19500-683-92		
S 2N2221AL 3/	A	1B		19500-3917-13		
SF 2N2221A; AL	A	3A		19500-4752-16		
SF 2N2221A; AL 3/	A	1B		19500-3917-13		
** 2N2221A; AL	A	3A		19500-4752-16		
VF 2N2221A; AL 3/	A	1B		19500-3917-13		
VF 2N2221A; AL	A	3A		19500-4752-16		
S 2N2222A; AL	A	3A		19500-4752-16		
S 2N2222A; AL 3/	A	1B		19500-683-92		
SF 2N2222A; AL	A	3A		19500-4752-16		
SF 2N2222A; AL 3/	A	1B		19500-3917-13		
** 2N2222A; AL	A	3A		19500-4752-16		
** 2N2222A; AL 3/	A	1B		19500-683-92		
VF 2N2222A; AL 3/	A	1B		19500-3917-13		
VF 2N2222A; AL	A	3A		19500-4752-16		

3/ Traceable die bank being utilized

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

S Includes JANS quality level only

V Includes JANTXV quality level only

** Includes JAN, JANTX, and JANTXV quality levels

Plant (1): Same as above

This re-qualification approval is based upon test report numbers 19500-4752-16 for your die and package, 19500-4648-16 for Group D data and your letter dated July 20, 2016. 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 concerning this letter, please contact Mr. Carl Dello Stritto (614) 692-0616.

Sincerely,

for ALAN J. WILL
Chief
Sourcing and Qualifications Division