



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

February 28, 2013

Mr. Harry James  
 Semicoa Corporation  
 333 McCormick Avenue  
 Costa Mesa, CA 92626-2613

Dear Mr. James:

Re: Notification of Qualification, MIL-PRF-19500P, FSC 5961, VQ (VQE-13-025935), CAGE Code: 34156, Control Number: 038640

Qualification by extension of your product is granted under the current issue of the specification as a result of successful Group D testing of device type JANSF2N4033 to Military Specification MIL-PRF-19500, Semiconductor Devices, and performance specification sheet /512J. 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 Qualified Manufacturers List (QML) 19500. The effective date of this qualification is February 28, 2013. The starting wafer lot number is J2085 and the starting lot date code is 1235.

The qualified thermal impedance conditions for screening and QCI limits are as follows (subject to change after 5 lots with approval from qualifying activity):  $V_{CE}=20V$ ,  $I_m=10mA$ ,  $I_H=150mA$ ,  $T_h=100ms$ ,  $t_{MD}=100\mu sec$ , Screening:  $Z_{\theta JX}=25^{\circ}C/W$  max, QCI:  $27^{\circ}C/W$  max (T0-18 & 39); Screening:  $Z_{\theta JX}=34^{\circ}C/W$  max, QCI:  $36^{\circ}C/W$  max (UB)

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf. Spec	Manufacturer Name & address
§F 2N4033; UB	3A	CEJJ	19500-3785-13	/512	Same as above
§F 2N4029	3A				
JANKCAF2N4033					

Plant 1: Same as above

§ Includes JANS quality level only  
 JANKCA Includes JANKC quality level only

This qualification approval is based upon test report numbers 19500-683-03 for your package and die, 19500-3785-13 for your Group D RHA test data, and your letter dated February 5, 2013. This approval 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 questions, please contact Mr. Brad Deslich at (614) 692-0593.

Sincerely,

/SIGNED/

JOSEPH GEMERLINE  
 Chief  
 Sourcing and Qualifications Division