



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

Ms. Karina Perales Reyes  
 Semtech Corpus Christi S.A. de C.V.  
 Carretera A Matamoros KM 9  
 Brecha E-99, Edificio 9,  
 Parque Industrial Reynosa  
 CD, Reynosa, Tamps, Mexico CP 88500

March 29, 2016

Dear Ms. Reyes:

Re: Notification of Qualification; MIL-PRF-19500P Amendment 3; FSC 5961; VQ (VQE-16-030219); CAGE Code: SH879; Control Number 049701.

Qualification of your product is granted under the current issue of the specification as a result of successful qualification testing of device type JANS1N6642US to Performance Specification MIL PRF 19500P, Semiconductor Devices, FSC 5961, and performance specification /578N. Also, qualification by extension is granted to the additional devices listed herein as allowed by paragraph E.4.2.2 of Performance Specification MIL PRF 19500P. Therefore, your products will be listed as shown below in Qualified Manufacturers List (QML) 19500. The effective date of this qualification is March 29, 2016. The starting lot date code is 1544 (group C starting lot date code is 1545).

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

Package	I <sub>M</sub>	I <sub>H</sub>	t <sub>H</sub>	t <sub>MD</sub>	Z <sub>θJX</sub> (LCL)	Z <sub>θJX</sub> (UCL)
US	1 mA	350 mA	10 ms	70 μs	14.12°C/W	21.01°C/W
Axial	1 mA	350 mA	10 ms	70 μs	14.12°C/W	21.01°C/W

Government Designation	Lead Finish	ESD Class	Manufacturer Designation	Test Report Reference	Prf Spec	Manufacturer Name & Address
S 1N6638, US	A	NS	CDBV	19500-4642-16	/578	Same as above
S 1N6642, US						
S 1N6643, US						

S Includes JANS quality level only

Plant 1: Same as above

This qualification approval is based upon test report number 19500-4642-16 and on your letter dated January 28, 2016. This action 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. Karadsheh at 614-692-0611.

Sincerely,

for ALAN J. WILL  
 Chief,  
 Sourcing and Qualifications Division