INCH-POUND

MIL-PRF-19500/610G
21 August 2019
SUPERSEDING
MIL-PRF-19500/610F
16 January 2014

The documentation and process conversion measures necessary to comply with this document shall be completed by 23 December 2019.

PERFORMANCE SPECIFICATION SHEET

# SEMICONDUCTOR DEVICE, DIODE, SILICON, RECTIFIER, SCHOTTKY BARRIER, ENCAPSULATED (AXIAL LEADED AND SURFACE MOUNT) AND UNENCAPSULATED, TYPES 1N6677-1 AND 1N6677UR-1, QUALITY LEVELS JAN, JANTX, JANTXV, JANS, JANHC, AND JANKC

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-PRF-19500.

## 1. SCOPE

1.1 Scope. This specification covers the performance requirements for silicon, Schottky barrier rectifier diodes. Four levels of product assurance (JAN, JANTX, JANTXV, and JANS) are provided for each encapsulated device types as specified in MIL-PRF-19500, and two levels of product assurance (JANHC and JANKC) for each unencapsulated device type die.

1.2 Physical dimensions.

1.2.1 Package outlines. The device package outlines are as follows: an axial leaded DO-204AH (formerly DO-35) package in accordance with figure 1 and round end-cap surface mount DO-213AA (UR) in accordance with figure 2.

1.2.2 Un-encapsulated die. The dimensions and topography for JANHC and JANKC unencapsulated die are in accordance with figure 3.

1.3 Maximum ratings.

| Types (1) | V | $I_{O1}$ (2) | $I_{FSM}$ | $T_{STG}$ | $T_J$ |
|---|---|---|---|---|---|
| | V (pk) | mA dc | A (pk) | °C | °C |
| 1N6677-1, 1N6677UR-1 | 40 | 200 | 5 | −65 to +150 | −65 to +125 |

(1) Maximum ratings for the 1N6677UR-1 are identical to the 1N6677-1.
(2) For derating, see figures 4 and 5.

Comments, suggestions, or questions on this document should be addressed to DLA Land and Maritime, VAC, P.O. Box 3990, Columbus, OH 43218-3990, or emailed to Semiconductor@dla.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at https://assist.dla.mil.

AMSC N/A

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