

Title of Change:	Product Discontinuance of BSS138W
Last Time Buy Date:	N/A
Last Ship Date:	N/A
Contact information:	Contact your local onsemi Sales Office

Description and Purpose:

We are writing to inform you of our decision to immediately discontinue the **BSS138W** N-Channel MOSFET. This decision follows an extensive review of manufacturing continuity, qualification progress, product reliability and long-term supply viability.

In September 2025, our external assembly and test partner's **AUK manufacturing site ceased operations**, resulting in the discontinuation of BSS138W production at its established manufacturing location. To maintain supply continuity, we initiated a transfer of assembly and test operations to our **Tarlac facility**, with qualification targeted for completion by Q2 2026.

To support customer demand through the transfer period, bridge inventory was established and expected to sustain supply through the completion of site qualification. However, qualification activities encountered unforeseen challenges, including potential **Highly Accelerated Stress Test (HAST) failures**, preventing full qualification of the product at the new manufacturing location. While additional corrective actions and testing have been pursued, qualification remains incomplete.

Unfortunately, inventory has been depleted and remaining supply options are extremely limited. Despite extensive evaluation and corrective action efforts, a robust and sustainable solution has not yet been identified. Therefore, **onsemi** has decided to discontinue the BSS138W.

We recognize that BSS138W is utilized across a broad range of applications. **onsemi** remains committed to supporting customers through this transition.

As potential alternatives, customers may consider **2N7002WT1G**, a pin-compatible device in the same package that offers:

- Higher voltage rating
- Higher current capability
- Lower RDS(on)
- Lower gate charge
- Improved overall electrical robustness and efficiency

We understand the impact that this decision may have on your business and are committed to assisting with migration planning and alternate device evaluations. Please contact your local sales representative or applications engineer for technical support and transition guidance.

Additional contacts are:

Americas:

Jennifer Arendell (jennifer.arendell@onsemi.com)

☎ +480 299 9029

United States

Japan:

Shouichiro Sato (shouichiro.sato@onsemi.com)

☎ +81 3 6880 1774

Japan

Europe:

Andrej Tomasik (andrej.tomasik@onsemi.com)

☎ +421 33790 2229

Slovakia

Asia Pacific:

Stephen Ng (stephen.ng@onsemi.com)

☎ +852 2689 0209

China

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Device to be Discontinued	Replacement part	Supplier
BSS138W	2N7002WT1G	onsemi