

Title of Change:	Datasheet update for Vgs condition of maximum ratings and IGSS test condition
Effective date:	29 Jun 2026
Contact information:	Contact your local onsemi Sales Office
Type of notification:	This Product Bulletin is for notification purposes only. onsemi will proceed with implementation of this change upon publication of this Product Bulletin.
Change Category:	Datasheet update
Change Sub-Category(s):	Datasheet/Product Doc change

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	None

Description and Purpose:

onsemi wishes to inform customers of updates to the datasheet parameters for SiC 650 V MOSFET discrete products:

- Gate-to-Source Static Voltage (Vgs)

Based on the latest extended reliability test results, including High Temperature Gate Bias (HTGB), onsemi is revising the maximum Vgs ratings to reflect improved performance and compliance.

1) MAXIMUM RATINGS

Parameter	Symbol	Value		Unit
		Current	Updated	
Gate-to-Source Voltage	V _{gs}	-8/22	-10/22.6	V

2) ELECTRICAL CHARACTERISTICS

	Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Current Datasheet	Gate-to-Source Leakage Current	I _{GSS}	VGS=-8/22V, VDS=0V	-	-	±1.0	μA
Updated Datasheet	Gate-to-Source Leakage Current	I _{GSS}	VGS=-10/22.6V, VDS=0V	-1	-	1	μA

The change will not impact form, fit, or function of products.

List of Affected Standard 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**.

NTHL032N065M3S	NTHL023N065M3S	
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PCN Product List Addendum for:

Customer Contact Name: Premier Farnell Dropbox

Customer Contact Email: productchangenotices@newark.com



Appendix A: Changed Products

PCN#: PB27494X
Issue Date: Jun 29, 2026

NWKC: PREMIER FARNELL

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NTHL032N065M3S	4583072	NA		