

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 its plan to update datasheet parameters for SiC 650V MOSFET discrete products. The change includes revisions to the Gate-to-Source Voltage maximum ratings and Gate-to-Source Leakage current test conditions based on extended reliability validation results, including High Temperature Gate Bias (HTGB) and Dynamic Gate Stress (DGS) testing. These updates reflect improved device robustness and alignment with reliability data.

1. MAXIMUM RATINGS

Parameter	Symbol	Value		Unit
		Current	Updated	
Gate-to-Source Voltage	V_{GS}	-8/22	-10/22.6	V
Gate-to-Source Transient Voltage	V_{GS}	NA	-11/25	V

2. ELECTRICAL CHARACTERISTICS

	Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Current Datasheet	Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=-8/22V, V_{DS}=0V$	-	-	± 1.0	μA
Updated Datasheet	Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=-10/22.6V, V_{DS}=0V$	-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](#).

NVH4L032N065M3S	NVH4L023N065M3S	NVBG032N065M3S
NVBG023N065M3S		

PCN Product List Addendum for:

Customer Contact Name: Premier Farnell Dropbox

Customer Contact Email: productchangenotices@newark.com

Appendix A: Changed Products

PCN#: PB27494ZB
Issue Date: Jun 29, 2026

NWKC: PREMIER FARNELL

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NVBG032N065M3S	4583075	NA		
NVBG023N065M3S	4583074	NA		
NVH4L032N065M3S	4583077	NA		
NVH4L023N065M3S	4583076	NA		