

Samples: Contact your local ON Sen Additional Reliability Data: Contact your local ON Sen Type of notification: This is a Final Product/Proto to implementation of the ON Semiconductor will co delivery of this notice. To Change Part Identification: Change marking for identification:	niconductor Sales C niconductor Sales C niconductor Sales C cess Change Notific change. nsider this change do so, contact <pc fication r after one digit da</pc 	Office or <mike.begonia@on Office Office or <andy.esteva@ons cation (FPCN) sent to custor</andy.esteva@ons </mike.begonia@on 	semi.com> mers. FPCNs are issued 90 days prior is made in writing within 30 days of				
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Additional vertical line/ba Change Part Identification: Device	r after one digit da		n – MI				
Identification: Device	G	SBN MARKING					
	G		OSPI TARLAC MARKING				
NSPM5131MUTB		A3M	A3MI				
Change category: 🖸 Wafer Fab Change 🖾 Assembly Change 🖾 Test Change 🗍 Other							
	anufacturing Site Attended Att		kaging/Marking				
Sites Affected: ON Semiconductor Sites: ON Seremban, Malaysia ON Tarlac City, Philippines		External Found None	External Foundry/Subcon Sites: None				
Description and Purpose:							
The Final Notification announces to customers of the plan to have ON Semiconductor Tarlac, Philippines factory as additional production site for NSPM5131MUTBG which is currently manufactured at ON semiconductor Seremban, Malaysia factory.							
The Philippines internal facility is certified with ISO/TS 16949:2009 and is currently running production for DFN packages. These products will continue being Pb-free, Halide free and RoHS compliant. Qualification tests are designed to show that the reliability of the qualified devices will continue to meet or exceed ON Semiconductor standards.							
NSPM5131MUTBG							
Before Change (Seren	ıban Build) Descrip	otion After Change	e (Seremban and Tarlac Build) Description				
Lead Frame Selective Ag UI	DFN 1.8 X 2.0 6L		Ag UDFN 1.8 X 2.0 6L (SBN) FN 1.8 X 2.0 6L (TARLAC)				
Ероху АВ 80	008HT		No change				
Mold Compound MC SU E	MC SU EMEG770 (SBN) MC SU EMEG770 (TARLAC)						
Wire Size/Type 2 mile	s / PCC		No Change				



Reliability Data Summary:

QV DEVICE NAME: <u>NSPM5131MUTBG</u> RMS: <u>41151</u> PACKAGE: <u>UDFN6, 1.8x2, 0.4P</u>

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	High Temperature Reverse Bias Tj=150C Bias = 100% Vrwm	1008 hrs	0/77*3
HTSL	JESD22-A103	Ta=150C max storafe storage temp for device	2000 hrs	0/77*3
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, deltaTj=100°C max, 2min on/off for 15000 cyc	15000 сус	0/77*3
TC	JESD22-A104	Temp = -65°C to +150°C; for 1000 cycles	1000 сус	0/77*3
HAST	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, 100% VRWM for 96hr (JA101)	192 hrs	0/77*3
uHAST	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs	0/77*3
PC	J-STD-020 JESD-A113	IR reflow at 260C		0/480*3
RSH	JESD22- B106	Ta=265C 10 sec dwell B106		0/30*3

Electrical Characteristic Summary:

Data are available upon request.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
NSPM5131MUTBG	NSPM5131MUTBG