



Initial Product/Process Change Notification

Document #: IPCN23200X

Issue Date: 17 Apr 2020

Title of Change:	Sumitomo G700LTD SF EMC Qualification for SPS56 Package.	
Proposed First Ship date:	17 Oct 2020 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or Jordan.Salandron@onsemi.com	
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or PCN.samples@onsemi.com Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact PCN.Support@onsemi.com	
Marking of Parts/ Traceability of Change:	Through Date Code cut-off	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
ON Semiconductor Cebu, Philippines	None	
Description and Purpose:		
	Before Change Description	After Change Description
Mold Compound	CEL9240HF10LS 45c	G700LTD SF

**Qualification Plan:****QV DEVICE NAME: FDMF3005****RMS : 66770, 66391****PACKAGE : SPS56**

Test	Specification	Condition	Interval
HTOL	TA=125C JA108	TA=125C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hrs
HAST	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	192 hrs
HTSL	JESD22-A103	Ta = 150C	1008 hrs
TC	JESD22-A104	Temp = -65°C to +150°C; for 500 cycles	500 cyc
uHAST	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs
PC	J STD 020, JESD22-A113	IR reflow at 260C	n/a
RSH	JESD22-B106	Ta=265C 10 sec dwell B106	n/a
SD	J STD 002	Ta=245C 5 sec dwell	n/a

QV DEVICE NAME: FDMF3180**RMS : 66772, 66436****PACKAGE : SPS56**

Test	Specification	Condition	Interval
HTOL	TA=125C JA108	TA=125C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hrs
HAST	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	192 hrs
HTSL	JESD22-A103	Ta = 150C	1008 hrs
TC	JESD22-A104	Temp = -65°C to +150°C; for 500 cycles	500 cyc
uHAST	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs
PC	J-STD-020 JESD-A113	IR reflow at 260C	n/a
RSH	JESD22- B106	Ta=265C 10 sec dwell B106	n/a
SD	JSTD002	Ta=245C 5 sec dwell	n/a

Estimated date for qualification completion: 28 August 2020

**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**.

Part Number	Qualification Vehicle
FDMF3170	FDMF3005
FDMF3172	FDMF3005
FDMF3180	FDMF3180
FDMF3160	FDMF3005
NCP303150MNTWG	FDMF3005
NCP303151MNTWG	FDMF3005
NCP303150DMNTWG	FDMF3005