



Final Product/Process Change Notification

Document #:FPCN23681XA

Issue Date:09 Dec 2022

Title of Change:	Qualification of 8 mils wire size & EMC G700HFC for selected DPAK Ultrafast
Proposed First Ship date:	21 Mar 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Danh.Trinh@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office. 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.
Additional Reliability Data:	Contact your local onsemi Sales Office or ffxg4t@onsemi.com
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Clean date code will be advised upon of request.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Seremban, Malaysia	Tongfu Microelectronics
onsemi Vietnam	

Description and Purpose:

This is the Final Product Change Notification to announce the qualification of 8 mils wire size & G700HFC mold compound on selected Rectifier Ultrafast devices in DPAK package. This change is to improve quality robustness.

Once the expiration of the FPCN, all products listed here will be changed with new Bill of Material.

	From		To	
Site	onsemi Vietnam/ onsemi SBN	Tongfu Microelectronics	onsemi Vietnam/ onsemi SBN	Tongfu Microelectronics
Al wire	5 mils	5 mils	8 mils	8 mils
EMC	G700HF	CEL8240HF10NF-2	No change	G700HFC

There is no product marking change as a result of this change.



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Reliability Data Summary:

QV DEVICE NAME: MURD620CTT4G

RMS: V72850, S81414, V84395

PACKAGE: DPAK

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, deltaTj = 100°C max, Ton = Toff = 2min	15000 cyc	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/231
UHAST	JESD22-A102	130°C, 100% RH, 18.8psig, unbiased	96 hrs	0/231
H3TRB	JESD22-A101	85°C, 85% RH, bias = 100V max	1008 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/924
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90
SD	JSTD002	Ta = 245°C, 10 sec		0/45

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

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
MSRD620CTT4G	MURD620CTT4G
MSRD620CTT4RG	MURD620CTT4G
MURD620CTT4G	MURD620CTT4G