



Initial Product/Process Change Notification

Document #: IPCN24855X

Issue Date: 29 Sep 2022

Title of Change:	Qualification of alternate mold compound GR30 for TO220 & I2PAK	
Proposed First Ship date:	30 Apr 2023 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Yun.Cui@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.	
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:	Keep same marking. Changed material will be identified by lot code.	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Suzhou, China	None	
Description and Purpose:		
This IPCN is to inform customers that onsemi is qualifying new green mold compound GR30 from China local supplier Hysol, as alternative source on selected TO220 & I2PAK Discrete products in onsemi Suzhou, China. This will help improve supply chain flexibility.		
There are no changes in product electrical specifications.		
	Before Change Description	After Change Description
Mold Compound for TO220	CEL8240HF10FC	CEL8240HF10FC GR30
Mold Compound for I2PAK	CEL8240HF10FC KTMC5900GM F01	CEL8240HF10FC KTMC5900GM F01 GR30
There is no product marking change as a result of this change.		



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Qualification Plan:

QV DEVICE NAME: NTP055N65S3H

PACKAGE: TO-220

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= _150_°C, 100_% max rated V	_1008_ hrs
HTGB	JESD22-A108	Tj= _150_°C, 100% max rated Vgss	_1008_ hrs
HTSL	JESD22-A103	Ta= _150_°C	_1008_ hrs
TC	JESD22-A104	Ta= -_55_°C to +_150_°C	_1000_ cyc
HAST	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V	96hrs
UHAST	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 3.5 min= Ton=Toff	_8572_ cyc
RSH	JESD22-B106	Ta=265C, 10 sec	
SD	JSTD002	Ta = 245C, 5 sec	

QV DEVICE NAME: FJ15603DTU

PACKAGE: I2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= _150_°C, 80_% max rated V	_1008_ hrs
HTSL	JESD22-A103	Ta= _150_°C	_1008_ hrs
TC	JESD22-A104	Ta= -_55_°C to +_150_°C	_1000_ cyc
HAST	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96hrs
UHAST	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 3.5 min= Ton=Toff	_8572_ cyc
RSH	JESD22-B106	Ta=265C, 10 sec	
SD	JSTD002	Ta = 245C, 5 sec	



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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
NTP165N65S3H	NTP055N65S3H
FDI030N06	NTP055N65S3H
NTP360N80S3Z	NTP055N65S3H
NTP095N65S3H	NTP055N65S3H
FCP220N80	NTP055N65S3H
NTP067N65S3H	NTP055N65S3H
FDI045N10A-F102	NTP055N65S3H
NTP082N65S3HF	NTP055N65S3H
NTP190N65S3HF	NTP055N65S3H
NTP095N65S3HF	NTP055N65S3H
FCI7N60	NTP055N65S3H
FJI5603DTU	FJI5603DTU
NTP055N65S3H	NTP055N65S3H
NTP125N65S3H	NTP055N65S3H
FDI150N10	NTP055N65S3H
NTP150N65S3HF	NTP055N65S3H
NTP082N65S3F	NTP055N65S3H
FCP099N65S3	NTP055N65S3H
NTP110N65S3HF	NTP055N65S3H
NTP185N60S5H	NTP055N65S3H
NTP125N60S5FZ	NTP055N65S3H
HUF75639S3	NTP055N65S3H
FQI7N60TU	NTP055N65S3H
FCP850N80Z	NTP055N65S3H
FCP650N80Z	NTP055N65S3H
FCP600N65S3R0	NTP055N65S3H
FCP400N80Z	NTP055N65S3H
FCP360N65S3R0	NTP055N65S3H
FCP290N80	NTP055N65S3H



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FCP260N65S3	NTP055N65S3H
FCP190N65S3R0	NTP055N65S3H
FCP190N65S3	NTP055N65S3H
FCP165N65S3R0	NTP055N65S3H
FCP165N65S3	NTP055N65S3H
FCP125N65S3R0	NTP055N65S3H
FCP125N65S3	NTP055N65S3H
FCP067N65S3	NTP055N65S3H