



Final Product/Process Change Notification

Document #:FPCN24256X

Issue Date:23 Dec 2021

Title of Change:	Cebu SOT23 JFET insource to LPS	
Proposed First Ship date:	30 Mar 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Andy.Tao@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 ChangKit.Mok@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:	Customer may receive the parts from Leshan Phoenix Semiconductor, China from month of WW13 2022 onwards once FPCN expire. Parts from Leshan Phoenix Semiconductor, China can be identified through product marking which follow onsemi marking format	
Change Category:	Test Change, Assembly Change	
Change Sub-Category(s):	Material Change, Manufacturing Site Transfer	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
Leshan Phoenix Semiconductor, China	None	
onsemi Cebu, Philippines		
Description and Purpose:		
<p>This Final Notification announces to customers of its plans to transfer Assembly and Test operations sites of SOT23 JFET products from onsemi Cebu, Philippines to Leshan Phoenix Semiconductor, China.</p> <p>Small Signal JFET mold compound will be converted from Panasonic CK5000A to Hysol GR640HV as part of the process standardization at Leshan Phoenix Semiconductor, China (as per table in List of affected parts).</p> <p>Leshan Phoenix Semiconductor, China internal facility is certified with ISO/TS 16949:2009 and is currently running production for SOT-23 package.</p> <p>These products will continue being Pb-free, Halide free and RoHS compliant. Qualification tests are designed to show that the reliability of the transferred devices will continue to meet or exceed onsemi standards.</p>		
	Before Change Description	After Change Description
Assembly & Test Site	onsemi Cebu , Philippines	Leshan Phoenix Semiconductor, China
Mold Compound	Panasonic CK5000A	Hysol GR640HV

Reliability Data Summary:

QV DEVICE NAME: MMBFJ271&BSR57

RMS: L40260, SZ330, L58672

PACKAGE: SOT 23

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/240
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/240
H3TRB	JESD22-A110	85°C, 85% RH, bias	2016 hrs	0/240
AC	JESD22-A118	120°C, 100% RH, 15psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/240
RSH	JESD22- B106	Ta = 265C, 10 sec		0/240
SD	JSTD002	Ta = 245C, 5 sec		0/240

Electrical Characteristics Summary:

The temperature characterization and ESD performance meet datasheet specification. Detail of Electrical characterization result is available upon request.

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
MMBF4416A	MMBFJ271&BSR57
MMBF4093	MMBFJ271&BSR57
MMBFJ201	MMBFJ271&BSR57
MMBFJ113	MMBFJ271&BSR57

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MMBF4416A		MMBFJ271&BSR57		
MMBFJ201		MMBFJ271&BSR57		
MMBFJ113		MMBFJ271&BSR57		
MMBF4093		MMBFJ271&BSR57		