



Initial Product/Process Change Notification

Document #: IPCN27274X

Issue Date: 13 Feb 2026

Title of Change:	SOT23 Package Dual Source Qualification from LPS, China to JCET Chuzhou, China		
Proposed First Ship date:	17 Oct 2026 or earlier if approved by customer		
Contact Information:	Contact your local onsemi Sales Office		
PCN Samples Contact:	<p>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.</p>		
Type of Notification:	<p>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></p>		
Marking of Parts/ Traceability of Change:	Changed material can be identified by lot code		
Change Category:	Assembly Change, Test Change		
Change Sub-Category(s):	Manufacturing Site Addition		
Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
None		JCET, China	
Description and Purpose:			
<p>This Initial Product Change Notification (IPCN) is provided as an early notification to inform customers of the planned qualification of JCET Chuzhou, China, as an additional assembly and Final Test site for the SOT23 package, alongside the current site, Leshan Joint Venture (LPS), China.</p> <p>JCET is an existing, qualified subcontract manufacturing site for onsemi. The facility is certified with ISO 9001:2015 for assembly and test operations.</p> <p>To help ensure business continuity, customers are strongly encouraged to initiate and expedite their internal qualification activities using engineering samples, which will be provided upon request.</p> <p>Early customer evaluation and approval based on these samples will help enable faster readiness once qualification is completed. A final notification will be issued upon successful completion of the full qualification.</p>			
	Before Change Description	After Change Description	
Assembly & Test Site	Leshan Joint Venture (LPS), China	Leshan Joint Venture (LPS), China	JCET Chuzhou, China
LeadFrame	SOT23 24R Cu PLT	SOT23 24R Cu PLT	SOT23 3L A42 Ag plating
Mold Compound	GR640 HV L1 (M7A)	GR640 HV L1(M7A)	EDALE ELER 8100HFE
The traceability of marking will be maintained by assembly plant code, lot code and date code.			

Qualification Plan:

QV DEVICE NAME: MMBT2907ALT1G, BSR16

RMS: 108969, 70383

PACKAGE: SOT-23-3

Test	Specification	Condition	Interval
High Temperature Reverse Bias	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
Intermittent Operating Life	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
High Humidity, High Temperature Reverse Bias	JESD22-A101	85°C, 85% RH, bias	2016 hrs
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec	
Solderability	JSTD002	Ta = 245°C, 5 sec	
Physical Dimension	JESD22-B120		

QV DEVICE NAME: BC817-40LT3

RMS: 108972

PACKAGE: SOT-23-3

Test	Specification	Condition	Interval
High Temperature Reverse Bias	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
Intermittent Operating Life	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec	
Solderability	JSTD002	Ta = 245°C, 5 sec	
Physical Dimension	JESD22-B120		

Estimated date for qualification completion: **30 June 2026**

Electrical Characteristic Summary:

Electrical characteristics are not impacted.



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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](#).

Current Part Number	New Part Number	Qualification Vehicle
MMBT3906LT1G	#NONE	MMBT2907ALT1G
MMBT4403LT1G	#NONE	MMBT2907ALT1G
MMBT2907ALT1G	#NONE	MMBT2907ALT1G
MMBT2222LT1G	#NONE	BC817-40LT3G
BCW66GLT3G	#NONE	BC817-40LT3G
BCW66GLT1G	#NONE	BC817-40LT3G
BC847CLT3G	#NONE	BC817-40LT3G
BC847CLT1G	#NONE	BC817-40LT3G
BC847BLT3G	#NONE	BC817-40LT3G
BC847BLT1G	#NONE	BC817-40LT3G
BC847ALT1G	#NONE	BC817-40LT3G
MMBT4126LT3G	#NONE	MMBT2907ALT1G
MMBT4126LT1G	#NONE	MMBT2907ALT1G
MMBT4401LT3G	#NONE	BC817-40LT3G
BC817-25LT3G	#NONE	BC817-40LT3G
MMBT2222ALT3G	#NONE	BC817-40LT3G
MMBT3904LT3G	#NONE	BC817-40LT3G
BC817-25LT1G	#NONE	BC817-40LT3G
BC817-40LT1G	#NONE	BC817-40LT3G
MMBT4401LT1G	#NONE	BC817-40LT3G
MMBT3904LT1G	#NONE	BC817-40LT3G
MMBT2222ALT1G	#NONE	BC817-40LT3G
BC817-40LT3G	#NONE	BC817-40LT3G
MMBT4403LT3G	#NONE	MMBT2907ALT1G
MMBT2907ALT3G	#NONE	MMBT2907ALT1G
MMBT3906LT3G	#NONE	MMBT2907ALT1G