



Product Change Notification / RMES-07UJAX592

Date:

15-Jun-2023

Product Category:

Hi-Rel Discrete Diode and Rectifier

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6235 Final Notice: Qualification of Microchip Technology Colorado – Fab 5 (MCSO) as new fabrication site for various Power Schottky Barrier Diode products available in die sales and various packages.

Affected CPNs:

[RMES-07UJAX592_Affected_CPN_06152023.pdf](#)

[RMES-07UJAX592_Affected_CPN_06152023.csv](#)

Notification Text:

PCN Status:Final Notification

PCN Type:Manufacturing Change

Microchip Parts Affected:Please open one of the files found in the Affected CPNs section.

Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change:Qualification of Microchip Technology Colorado – Fab 5 (MCSO) as new fabrication site for various Power Schottky Barrier Diode products available in die sales and various packages.

Pre and Post Change Summary:

	Pre Change	Post Change
Fabrication Site	Microsemi Garden Grove Bipolar Linear Fab Line Fab1 (MGGV)	Microchip Technology Colorado – Fab 5 (MCSO)
Certification	Not applicable	ISO9001/ ISO41001/ IATF16949

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve on-time delivery performances by qualifying MSCO as new fab site.

Change Implementation Status:In Progress

Estimated First Ship Date:June 30, 2023

Note: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Time Table Summary:

	August 2016					>	June 2023				
Workweek	3 2	3 3	3 4	3 5	3 6		2 2	2 3	2 4	2 5	2 6
Initial PCN Issue Date	X										
Qual Report Availability									X		
Final PCN Issue Date									X		
Estimated Implementation Date											X

Method to Identify Change:Traceability code

Qualification Report:Please open the attachments included with this PCN labeled as PCN_#_Qual_Report.

Revision History:**August 01, 2016:** Issued initial notification with PCN # **2016-012**.

June 15, 2023: Issued final notice. Updated the affected CPN list. Attached is the qualification report and

included the estimated first ship date on June 30, 2023.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachments:

[PCN_RMES-07UJAX592_Qual_Report.pdf](#)

[PCN_2016-012_Initial_PCN_Notice.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.



MICROCHIP

QUALIFICATION REPORT SUMMARY

PCN #: RMES-07UJAX592

Date

May 25, 2023

**Qualification of Microchip Technology Colorado – Fab 5 (MCSO)
as new fabrication site for various Power Schottky Barrier Diode
products available in die sales and various packages.**

Purpose: Qualification of Microchip Technology Colorado – Fab 5 (MCSO) as new fabrication site for various Power Schottky Barrier Diode products available in die sales and various packages.

CCB No. 6235

MICROCHIP P/N: JANTXV1N6844U3 /679 date code C2233					
QUALIFICATION PER MIL-PRF-19500 (JANTXV)					
Test	Test Method	Conditions	Qty Tested	Qty Accepted	Date Completed
GROUP A					
SUBGROUP 1					
VISUAL MECHANICAL	2071		116	116	8/24/22
SUBGROUP 2					
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	116	116	8/24/22
SUBGROUP 3					
ELECTRICAL TEST @-55C	4011B, 4016A	Read & Record per /679	116	116	9/20/22
ELECTRICAL TEST@+125C	4011B, 4016A	Read & Record per /679	116	116	9/20/22
SUBGROUP 4					
Capacitance	4001	Read & Record per /679	116	116	9/20/22
SUBGROUP 5					
Surge	4066A	Read & Record per /679	22	22	9/20/22
SUBGROUP 6					
Surge	4066A	Read & Record per /679	22	22	9/20/22
SUBGROUP 7					
Dielectric Withstanding Vltage	1016	Read & Record per /679	22	22	9/21/22

MICROCHIP P/N: JANTXV1N6844U3 /679 date code C2233					
QUALIFICATION PER MIL-PRF-19500 (JANTXV)					
Test	Test Method	Conditions	Qty Tested	Qty Accepted	Date Completed
GROUP B					
SUBGROUP 1					
SOLDERABILITY / STEAM AGE	2026		15	15	9/25/22
RESISTANCE TO SOLVENTS	1022		15	15	9/26/22
SALT ATMOSPHERE	1041	Laser marked devices only	N/A	N/A	N/A
SUBGROUP 2					
TEMP CYCLE (air to air)	1051C	25 cycles, T (high) = 150°C to 165°C T (low) = -65°C to -55°C	22	22	9/12/22
HERMETIC SEAL	1071G	FINE LEAK / GROSS LEAK RADIFLO METHOD	22	22	9/12/22
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	22	22	9/12/22
SUBGROUP 3					
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	45	45	9/12/22
INTERMITTENT OPERATION LIFE	1037	2000 cycles	45	45	9/26/22
HERMETIC SEAL	1071	FINE LEAK / GROSS LEAK RADIFLO METHOD	45	45	9/26/22
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	45	45	9/27/22
BOND STRENGTH	2037D	11 wires	11	11	9/27/22

MICROCHIP P/N: JANTXV1N6844U3 /679 date code C2233					
QUALIFICATION PER MIL-PRF-19500 (JANTXV)					
Test	Test Method	Conditions	Qty Tested	Qty Accepted	Date Completed
SUBGROUP 4					
DECAP INTERNAL VISUAL	2075	Design Verification	1	1	10/13/22
SUBGROUP 5	N/A	N/A	N/A	N/A	N/A
SUBGROUP 6					
HIGH TEMPERTURE LIFE	1032	non operational, 340hrs minimum +150°C	32	32	9/27/22
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	32	32	9/28/22
GROUP C					
SUBGROUP 1					
PHYSICAL DIMENSIONS	2066	Read & Record per /679	15	15	10/13/22
SUBGROUP 2					
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	22	22	9/12/22
THERMAL SHOCK	1056B	T (high) = 98°C to 110°C T (low) = -10°C to 2°C 25+ cycles	22	22	9/12/22
TEMP CYCLE (air to air)	1051C	25 cycles, T (high) = 150°C to 165°C T (low) = -65°C to -55°C	22	22	9/14/22
HERMETIC SEAL	1071	FINE LEAK / GROSS LEAK RADIFLO METHOD	22	22	9/21/22
MOISTURE RESISTANCE	1021		22	22	10/3/22
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	22	22	10/3/22

MICROCHIP P/N: JANTXV1N6844U3 /679 date code C2233					
QUALIFICATION PER MIL-PRF-19500 (JANTXV)					
Test	Test Method	Conditions	Qty Tested	Qty Accepted	Date Completed
SUBGROUP 3					
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	22	22	10/3/22
SHOCK	2016	1500Gs	22	22	9/20/22
VIBRATION, VARIABLE, FREQUENCY	2056	20G's at f = 20Hz - 2000Hz X1, Y1 & Z1 at 20,000G;s min	22	22	9/20/22
CONSTANT ACCELERATION	2006	1 minute min in each orientation X1, Y1 & Z1 at 10,000G;s min	22	22	9/21/22
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	22	22	9/22/22
SUBGROUP 4					
SALT ATMOSPHERE	1041	Corrosion	15	15	9/15/22
SUBGROUP 5					
THERMAL RESISTANCE	3101	Read & Record per /679	15	15	10/14/22
SUBGROUP 6					
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	22	22	9/12/22
INTERMITTENT OPERATION LIFE	1037	4000 cycles	22	22	10/11/22
HERMETIC SEAL	1071	FINE LEAK / GROSS LEAK RADIFLO METHOD	22	22	10/11/22
ELECTRICAL TEST	3101, 4011B, 4016A	Read & Record per /679	22	22	10/12/22
SUBGROUP 7					
INTERNAL WATER VAPOR	1018		3	3	9/28/22

Affected Catalog Part Numbers (CPN)

1N6940UTK3AS
1N6940UTK3AS/TR
1N6940UTK3CS
1N6940UTK3CS/TR
1N6941UTK3
1N6941UTK3/TR
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1N6932UTK1CS
1N6940UTK3
1N6940UTK3/TR



Microsemi Corporation

August 2016

Product/Process Change Notification No: 2016-012

Change Classification: Major

Subject: Change of Wafer Fabrication location for Power Schottky Die Source

Description of Change: Microsemi Garden Grove Wafer Fabrication site is ceasing the Schottky die process. This silicon based die is used in the part number listing below. As a result of the cessation, Microsemi DPG will qualify select Schottky die processes in another internal Microsemi location.

Reason for Change: Cessation of Microsemi Garden Grove Silicon Schottky Die process

Application Impact: Microsemi is currently fulfilling orders with bridging inventory/Garden Grove die bank for the affected part numbers.

Method of Identifying Changed Product: Product built using the internal Microsemi location Schottky die will have an assembly date code which will indicate the change – the customer base will be informed of this date code by amendments to this PCN. Any MIL qualified product will have a date code prefix indicating the other Microsemi location as the die source as listed in QPDSIS-19500.

Products Affected by this Change: See below. Please note that all other Microsemi locations will continue processing schottky barrier diode and other discretes as before.

Production Shipment Schedule: Qualification of internal Microsemi location Schottky die source will be complete by end of April 2017.

Qualification Plan: Qualification of each product family will be performed per the requirements of MIL-PRF-19500.

Samples Availability: Not applicable.

Part Number List –

Part Number	Part Number	Part Number	Part Number
1N5823	1N6872U	1N6902UTK3CS	1N6940UTK3CS
1N5824	1N6872UTK2	1N6903UTK3	1N6941UTK3
1N5825	1N6872UTK2AS	1N6903UTK3AS	1N6941UTK3AS
1N5825e3	1N6872UTK2CS	1N6903UTK3CS	1N6941UTK3CS
1N5826	1N6873UTK2	1N6904UTK3	1N6942UTK3
1N5827	1N6873UTK2AS	1N6904UTK3AS	1N6942UTK3AS
1N5828	1N6873UTK2CS	1N6904UTK3CS	1N6942UTK3CS
1N5828R	1N6874UTK2	1N6905UTK3	1N7037CCU1
1N5829	1N6874UTK2AS	1N6905UTK3AS	1N7039CCT1
1N5830	1N6874UTK2CS	1N6905UTK3CS	1N7043CAT1
1N5831	1N6875U	1N6910UTK2	1N7043CCT1
1N5832	1N6875UTK2	1N6910UTK2AS	20FQ035
1N5833	1N6875UTK2AS	1N6910UTK2CS	20FQ045
1N5834	1N6875UTK2CS	1N6911UTK2	30FQ045
1N6095	1N6882UTK4	1N6911UTK2AS	40CDQ045
1N6096	1N6882UTK4AS	1N6911UTK2CS	51HQ035
1N6097	1N6882UTK4CS	1N6912U	51HQ040
1N6098	1N6883UTK4	1N6912UTK2	51HQ045
1N6391	1N6883UTK4AS	1N6912UTK2AS	55HQ030
1N6392	1N6883UTK4CS	1N6912UTK2CS	60HQ100
1N6392e3	1N6884UTK4	1N6920UTK4	75HQ045
1N6492	1N6884UTK4AS	1N6920UTK4AS	BT2545A
1N6492U4	1N6884UTK4CS	1N6920UTK4CS	D1919
1N6660	1N6885UTK4	1N6921UTK4	D2661
1N6660CCT1	1N6885UTK4AS	1N6921UTK4AS	D2712
1N6660D	1N6885UTK4CS	1N6921UTK4CS	D2941
1N6660DT1	1N6892UTK1	1N6922UTK4	D8297
1N6660R	1N6892UTK1AS	1N6922UTK4AS	D8319
1N6785R	1N6892UTK1CS	1N6922UTK4CS	D8352
1N6823	1N6893UTK1	1N6930UTK1	D8379
1N6840	1N6893UTK1AS	1N6930UTK1AS	D8398
1N6840U3	1N6893UTK1CS	1N6930UTK1CS	DR090818A
1N6841U3	1N6894UTK1	1N6931UTK1	DR090818B
1N6842	1N6894UTK1AS	1N6931UTK1AS	JAN1N6391
1N6842U3	1N6894UTK1CS	1N6931UTK1CS	JAN1N6392
1N6843CCU3	1N6895UTK1	1N6932UTK1	Jan1N6492
1N6843U3	1N6895UTK1AS	1N6932UTK1AS	JAN1N6492U4
1N6844	1N6895UTK1CS	1N6932UTK1CS	JAN1N6660

Part Number	Part Number	Part Number	Part Number
1N6844U3	1N6902UTK3	1N6940UTK3	JAN1N6660CAT1
1N6845U3	1N6902UTK3AS	1N6940UTK3AS	JAN1N6660CCT1
JAN1N6660D	JANTX1N6660CAT1	JANTXV1N6660CCT1	MSASC25H15KS
JAN1N6660DT1	JANTX1N6660CCT1	JANTXV1N6660D	MSASC25H15KV
JAN1N6660R	JANTX1N6660D	JANTXV1N6660DT1	MSASC25H30KS
JAN1N6785R	JANTX1N6660DT1	JANTXV1N6660R	MSASC25H30KV
JAN1N6840U3	JANTX1N6660R	JANTXV1N6785R	MSASC25H45K
JAN1N6841U3	JANTX1N6785R	JANTXV1N6840U3	MSASC25H45KS
JAN1N6842U3	JANTX1N6840U3	JANTXV1N6841U3	MSASC25H45KV
JAN1N6843CCU3	JANTX1N6841U3	JANTXV1N6842U3	MSASC25W100K
JAN1N6843U3	JANTX1N6842U3	JANTXV1N6843CCU3	MSASC25W100KS
JAN1N6844U3	JANTX1N6843CCU3	JANTXV1N6843U3	MSASC25W100KV
JAN1N6845U3	JANTX1N6843U3	JANTXV1N6844U3	MSASC25W45K
JAN1N6910UTK2	JANTX1N6844U3	JANTXV1N6845U3	MSASC25W45KS
JAN1N6910UTK2AS	JANTX1N6845U3	JANTXV1N6910UTK2	MSASC25W45KV
JAN1N6910UTK2CS	JANTX1N6910UTK2	JANTXV1N6910UTK2AS	MSASC25W80KV
JAN1N6911UTK2	JANTX1N6910UTK2AS	JANTXV1N6910UTK2CS	MSASC45W100K
JAN1N6911UTK2AS	JANTX1N6910UTK2CS	JANTXV1N6911UTK2	MSASC75H45F
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JAN1N6912UTK2	JANTX1N6911UTK2AS	JANTXV1N6911UTK2CS	MSASC75W100F
JAN1N6912UTK2AS	JANTX1N6911UTK2CS	JANTXV1N6912UTK2	MSASC75W100FV
JAN1N6912UTK2CS	JANTX1N6912UTK2	JANTXV1N6912UTK2AS	MSASC75W45FR
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JAN1N6940UTK3AS	JANTX1N6912UTK2CS	JANTXV1N7037CCU1	MTK2500
JAN1N6940UTK3CS	JANTX1N6940UTK3	JANTXV1N7039CCT1	MTK2501
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JAN1N6941UTK3AS	JANTX1N6940UTK3CS	JANTXV1N7043CCT1	MX009-306
JAN1N6941UTK3CS	JANTX1N6941UTK3	MCP1004	MX009-401
JAN1N6942UTK3	JANTX1N6941UTK3AS	MSASC100H45H	MX009-402
JAN1N6942UTK3AS	JANTX1N6941UTK3CS	MSASC100H60H	MX009-411
JAN1N6942UTK3CS	JANTX1N6942UTK3	MSASC100W100H	MX009-412
JAN1N7037CCU1	JANTX1N6942UTK3AS	MSASC100W45HS	MX009-414
JAN1N7039CCT1	JANTX1N6942UTK3CS	MSASC150H45L	MX009-415
JAN1N7043CAT1	JANTX1N7037CCU1	MSASC150H45LR	MX009-417
JAN1N7043CCT1	JANTX1N7039CCT1	MSASC150H45LS	MX009-418
JANHCA1N6391	JANTX1N7043CAT1	MSASC150H55L	MX041
JANHCA1N6392	JANTX1N7043CCT1	MSASC150H60L	MX079
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JANTX1N6391	JANTXV1N6392	MSASC150W100L	MX130

Part Number	Part Number	Part Number	Part Number
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JANTX1N6492U4	JANTXV1N6660	MSASC150W45L	NSD222
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NSD284	SBR6040PF	SBT3045	
NSD307	SBR6040R	SBT3045C	
SBR10040	SBR6045	SBT3050	
SBR10045	SBR6045e3	SBT3050A	
SBR10050	SBR6045PF	SBT3050C	
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SBR12045	SBR6050	SBT3060C	
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SBR12050	SBR7035	SBT6045C	
SBR2520	SBR7045	SBT6050	
SBR2530	SBR8035	SBT6050C	
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SBR2540	SBR8040	SD24145	
SBR2545	SBR8045	SD24145C	
SBR3035	SBR8045R	SD24145Ce3	
SBR3040	SBR8050	SD24150	
SBR3045	SBR8050R	SD241HR2	
SBR3045R	SBR8060	SD41	
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SBR3050R	SBR8210R	SD41e3	
SBR3060	SBR8215	SD5045PF	
SBR3080	SBR8220	SD51	
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SBR3550	SBT2525	USD245C	
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SBR50100PFR	SBT2530	USD245CR	
SBR5045PF	SBT2530A	USD245CRHR2	
SBR5050PF	SBT2535	USD3027	
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SBR60100P	SBT2540	USD3080	
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Part Number	Part Number	Part Number	Part Number
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SBR6030L	SBT3035A	USD535F	
SBR6030Le3	SBT3035C	USD545	



Contact Information:

Microsemi Discrete Product Group (DPG) Power Discretes and Modules (PDM)

Ronan Dillon

PLM, Diodes and BJT's

rdillon@microsemi.com

Desk - +353 656869129

Cell - +353 872327242

Regards,

Microsemi Corporation

Any projected dates in this PCN are based on the most current product information at the time this PCN is being issued, but they may change due to unforeseen circumstances. For the latest schedule and any other information, please contact your local Microsemi Sales Office, the factory contact shown above, or your local distributor.

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<To be attached only where customer acknowledgement/approval is necessary prior to implementation>

CHANGE APPROVAL SUPPLEMENT

Customer Acknowledgement / Approval for PCN<XXXX>

Microsemi Corporation intends to implement this change 90 days after this notification. Acknowledgement of your company's acceptance of this change is requested per contractual agreement. Response within 30 days is required.

Accepted ☐

Rejected ☐

Signature

Date

Name

Title

Please enter rationale for rejection, if applicable: _____

