



130 W Cochran St, Unit B
Simi Valley, CA 93065
Tel:818-701-4933

Process Change Notification (PCN)

Notification number:	101024-1
Notification date:	10 Oct. 2024
Proposed implementation date:	1 Feb. 2025
Product type affected:	Please refer to table 1 in Appendix 1
Change Category	Add New Qualified Source
Change Classification	Major
Change description:	Full electrical characterization and high reliability testing has been completed to ensure there is no change to device functionality or electrical specifications in the datasheet.
Reason for change:	To ensure the ability to continue business operation, it has determined with 2nd source in case of unforeseen event interruption.
Deposition of old product	Additional new product will produce in parallel with existing product.
Identification of Changed product:	DC 2505 onwards
Contact person:	Please contact your respective Account manager (AM) / Inside sales representative (ISR/CSR) if you have further query.
Approved by:	Jason Gao (Director of Engineering) Steve Zhang (Director of Supply Chain) Seaman Wu (Director of Quality) Pamela Cheng (GM & EVP of Sales)



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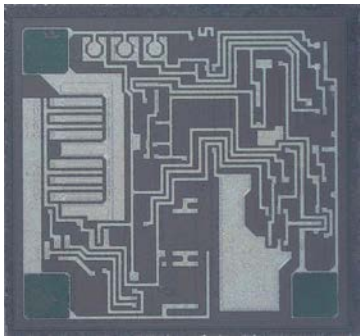
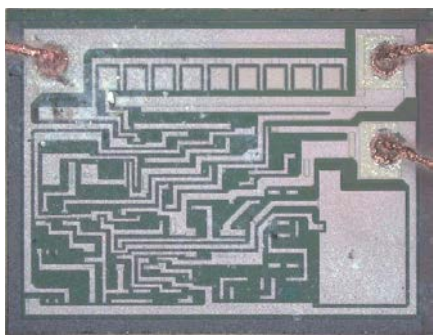
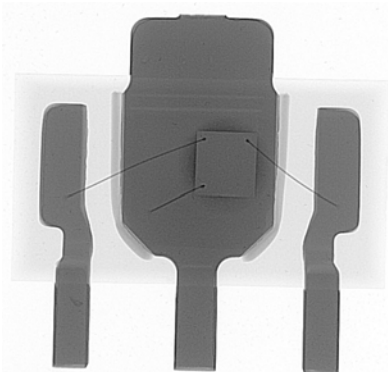
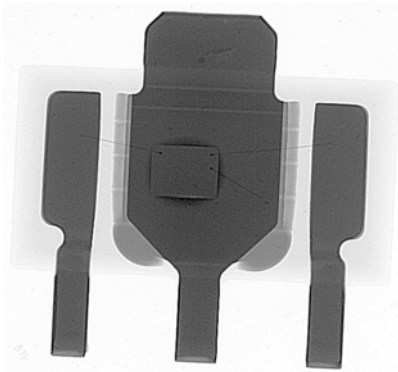
Appendix 1: Table A-Affected Product list

No.	Product type	Existing marking	New marking	Package type/code
1	MC78L05F-TP	78L05F	78L05F	SOT-89
2	MC78L05F-TP-HF	78L05F	78L05F	SOT-89
3	MC78M05CDT-TP	78M05	78M05	DPAK
4	MC78M05CDT-TP-HF	78M05	78M05	DPAK
5	MC7805CT-BP	7805CT	7805	TO-220
6	MC7805CT-BP-HF	7805CT	7805	TO-220



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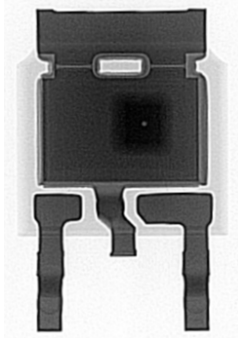
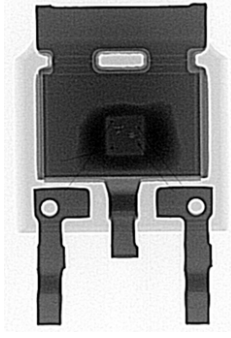
Appendix 2: Table A-MC78L05F-TP/MC78L05F-TP-HF Change description

Change description	Original	New
Wafer		
	0.8*0.75mm	0.8*0.6mm
Lead Frame		



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Appendix 2: Table B-MC78M05CDT-TP/MC78M05CDT-TP-HF Change description

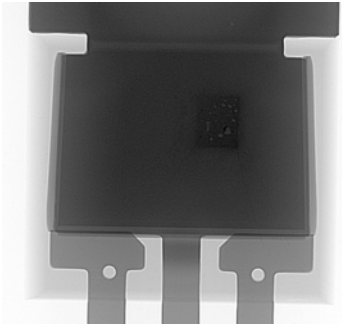
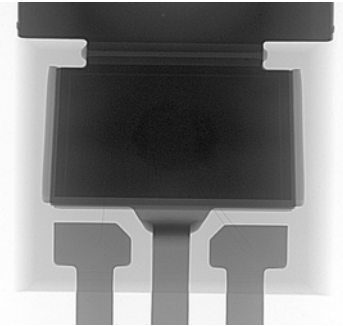
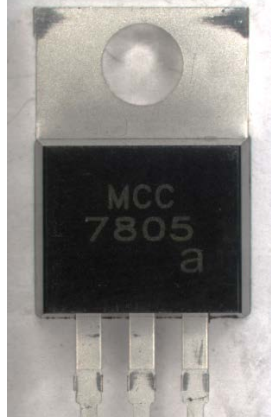
Change description	Original	New
Lead Frame		
Marking Code		

Note: No change in wafer.



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Appendix 2: Table C-MC7805CT-BP/MC7805CT-BP-HF Change description

Change description	Original	New
Lead Frame		
Marking Code		

Note: No change in wafer.



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Reliability test report:

Part Number: MC78L05F-TP

Test Results : PASS

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	T _a = 25 °C	N/A	all parts	see below
TC Temperature Cycling	JESD22-A104 -55 °C (+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C±2 °C, RH = 100 %, 15psig	96 hours	77Pcs	0
HTOL High Temperature Operating Life	JESD22-A108F V _{DD} =30V, T _a =125 °C ± 5 °C	1000 hours	77Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 150 °C ± 5 °C	1000 hours	77Pcs	0
LTSL Low Temperature Storage Life	JESD22-A119 -55 °C ± 5 °C	1000 hours	77Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 270 °C ± 5 °C	7s (+2,-0)	30Pcs	0
SD Solderability	J-STD-002 235 °C ± 5 °C	3 s	10Pcs	0



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Reliability test report:

Part Number: MC78M05CDT-TP

Test Results : PASS

Test Item	Conditions	Duration	Quantity	Rejects
Pre-conditioning	JESD22A-113 1.Temperature Cycling:-40 °C ~ 60 °C , 2.Bake:125 °C , 3.Moisture Soak:85 °C , 85%RH for MSL1 4.Reflow*3Cycles:260 °C	5Cycles; 24 hours; 168hours 3Cycles	154Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C (+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C±2 °C , RH = 100 % , 15psig	96 hours	77Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 150 °C ± 5 °C	1000 hours	77Pcs	0
LTSL Low Temperature Storage Life	JESD22-A119 -55 °C ± 5 °C	1000 hours	77Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 270 °C ± 5 °C	7s (+2,-0)	30Pcs	0
SD Solderability	J-STD-002 235 °C ± 5 °C	3 s	10Pcs	0



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Reliability test report:

Part Number: MC7805CT-BP

Test Results : PASS

Test Item	Conditions	Duration	Quantity	Rejects
Pre-conditioning	JESD22A-113 1. Temperature Cycling: -40 °C ~ 60 °C, 2. Bake: 125 °C, 3. Moisture Soak: 85 °C, 85% RH for MSL1 4. Reflow*3Cycles: 260 °C	5Cycles; 24 hours; 168hours 3Cycles	154Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C (+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C ± 2 °C, RH = 100 %, 15psig	96 hours	77Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 150 °C ± 5 °C	1000 hours	77Pcs	0
LTSL Low Temperature Storage Life	JESD22-A119 -55 °C ± 5 °C	1000 hours	77Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 270 °C ± 5 °C	7s (+2,-0)	30Pcs	0
SD Solderability	J-STD-002 235 °C ± 5 °C	3 s	10Pcs	0



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Date: 10 Oct 2024

PCN #: 101024-1

PCN Title: Optimized delivery for Low Dropout Regulators.

Dear Customer.

This is a PCN announcement to the above-mentioned product which is/are offered by Micro Commercial Components Corp (MCC). We would appreciate your acknowledgement of receipt of this notification within 30 days of the date of this PCN to your local ISR, sales representative. Please refer to the attached document for more information (including implementation date / product date code of this change). If you have any questions or concerns related to this PCN, please contact your local sales representative / ISR for support. *Sincerely, MCC PCN Team*

Thank you.

Yours sincerely,

PCN Team