



Chuangxin Online Test Center Laboratory

Add: F/r 401 Building A, Ying Da Feng industrial No,393,Jihua Rd.LongGang
Dis. Shenzhen China
Tel: 0755-83765367 Email: taow@iclab-cn.com



Report No:	SZ09072021014
Date:	2021/09/07
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Project Inspection Report

Company : NA
Address : N/A
Sample Name : MMBT3904LT1G
Manufacture : ON
Date Code : 1946.2023
Package Type : SOT-23
Sample Number : 2 PCS
Check Number : 2 PCS
Date of Received : 09/02/2021
Date of Tested : 16:00/09/03/2021 ~ 16:30/09/03/2021

WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

Inspected by Engineer
Wei-Tao

Reviewed by Project Manager
Felix

Note:

1. This report will be invalid if reproduced in whole or in part.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used separately.
3. This report is only valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.
5. This report is only responsible for the samples tested.



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Items test

- External visual inspection
- Pin Correlation Test
- Programming test
- Solder ability Analysis
- Radiography (X-ray)
- ROHS test
- Key Functional Testing (KFT)
- Baking
- Tape and Reel
- Internal visual inspection
- Top permanency test

Methods & Equipment

1.1 Applicable Standard

- MIL-STD-883L-2019 2012.11

1.2 Optical Microscope

- Equipment Spec:
Top view: FINIAL Hi-scope System SEZ-260: X7 ~ X45

1.3 Digital Caliper

- Equipment Spec:
MASTERPROOF : Standard Digital Caliper 0-150mm

1.4 Radiography (X-ray)

- Equipment Spec:
Hardware:XiDAT Dage XD6500
Software:11.56-DD6058
Magnification in excess of 2800x
Resolution below 2um
Energy:60KV/40uA

1.5 Testing Environment

- Ambient Temperature: 25±5°C
- Relative Humidity: 45%-65% RH



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1.6 Testing Base

- [ON MMBT3904LT1G]

<https://www.alldatasheet.com/datasheet-pdf/pdf/82501/ONSEMI/MMBT3904LT1G.html>

Analysis Summary

X-ray Analysis:

Applicable Standard: MIL-STD-883L 2019 2012.11

X-ray Inspection on 1 PCS sample marked with D/C1946 and 1 PCS sample marked with D/C2023.
Consistent internal structure, No structure or bonding wire abnormal was found.

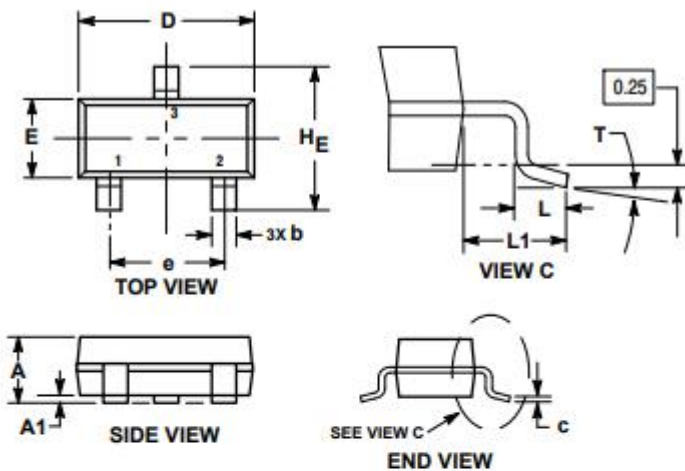


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1. Device Description:

These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant • S Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

2. Package Dimensions:

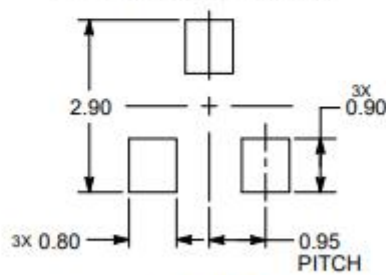


- NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 2. CONTROLLING DIMENSION: MILLIMETERS.
 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1.00	1.11	0.035	0.039	0.044
A1	0.01	0.06	0.10	0.000	0.002	0.004
b	0.37	0.44	0.50	0.015	0.017	0.020
c	0.08	0.14	0.20	0.003	0.006	0.008
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.20	1.30	1.40	0.047	0.051	0.055
e	1.78	1.90	2.04	0.070	0.075	0.080
L	0.30	0.43	0.55	0.012	0.017	0.022
L1	0.35	0.54	0.69	0.014	0.021	0.027
HE	2.10	2.40	2.64	0.083	0.094	0.104
T	0°	---	10°	0°	---	10°

STYLE 6:
 PIN 1. BASE
 2. EMITTER
 3. COLLECTOR

RECOMMENDED SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.



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3. Receiving Inspection:

Gross Weight	6g	Parts Total	2 PCS
Number Of Boxes	N/A	Full Label	Non Present
Package type	Bulk	Moisture protection	Acceptable
MSL	N/A	ESD protection	Acceptable

Received View





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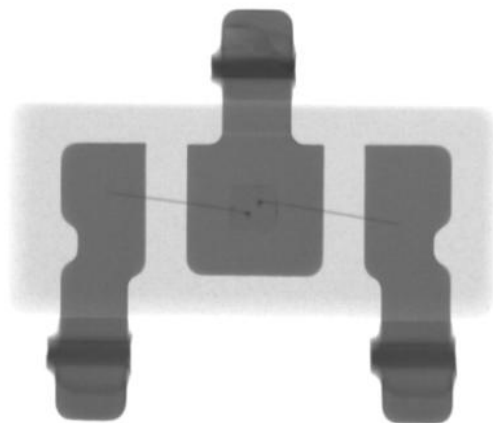
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5.X-ray Analysis:

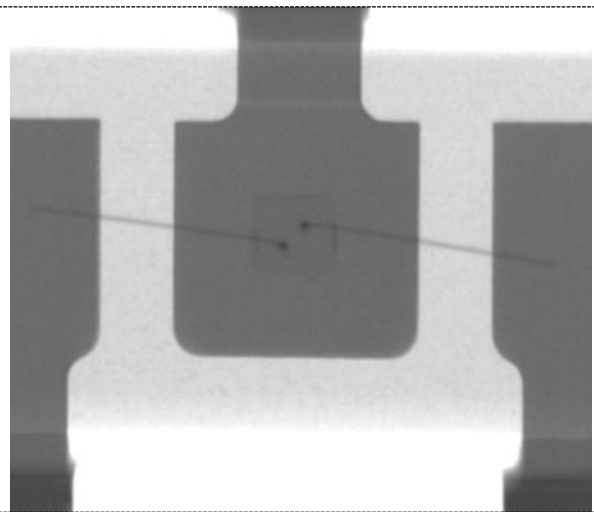
Applicable Standard: MIL-STD-883L 2019 2012.11

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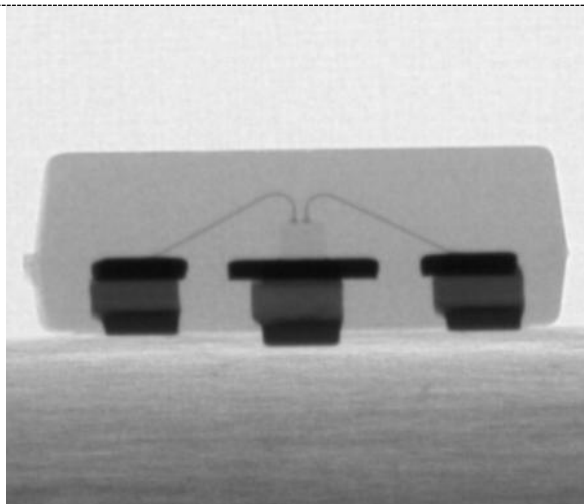
D/C1946-Top View-All



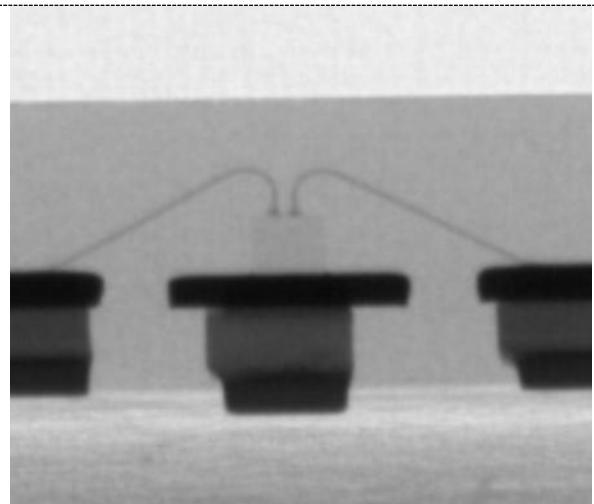
D/C1946-Top View-Zoom



D/C1946-Side View-All



D/C1946-Side View-Zoom





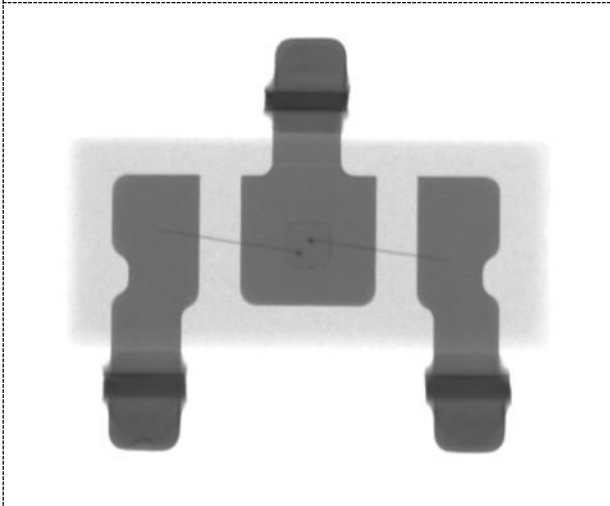
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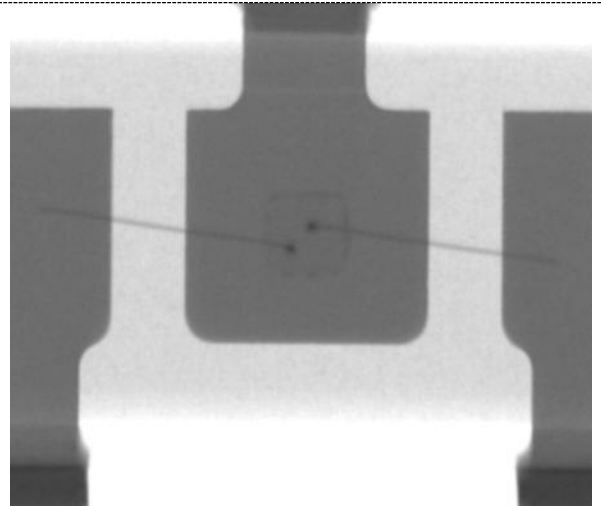


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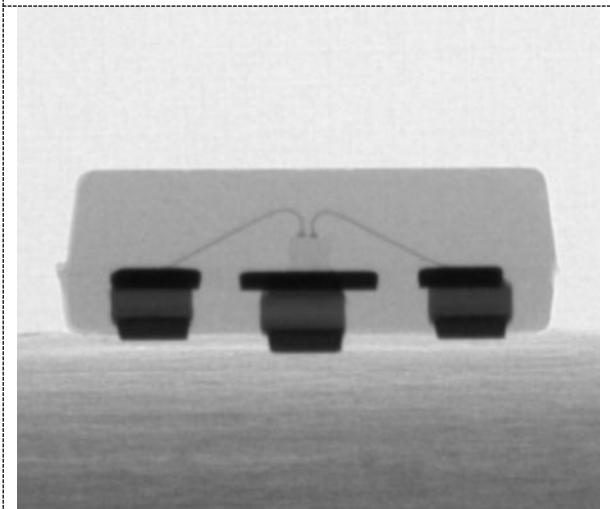
D/C2023-Top View-All



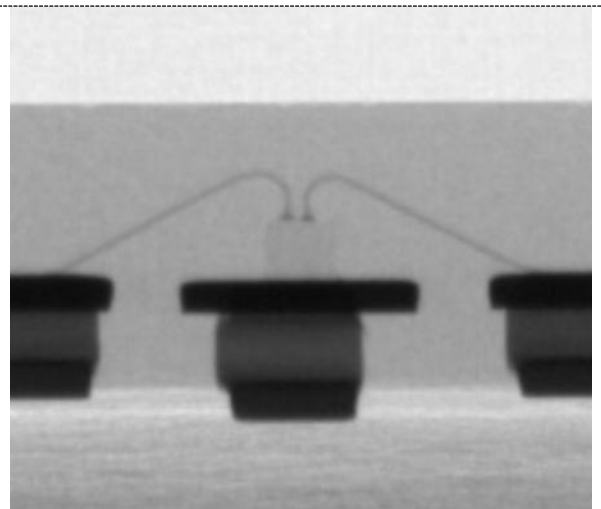
D/C2023-Top View-Zoom



D/C2023-Side View-All



D/C2023-Side View-Zoom



End



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CXO Lab WeChat official account

