



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: Star_Wu@iclab-cn.com



Report No:	SZ09022021004
Date:	2021/09/02
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Project Inspection Report

Company : NA
Address : N/A
Sample Name : BAS20LT1G
Manufacture : SOT-23
Date Code : 1018,1111,1328,1538
Package Type : SOT-23
Sample Number : 4 PCS
Check Number : 4 PCS
Date of Received : 08/30/2021
Date of Tested : 17:10/09/01/2021 ~ 18:20/09/01/2021

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
Cherry

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 2003.13

1.2 Optical Microscope

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

1.3 Tin melting furnace:

- Device model: CM100S

1.4 Flux:

Product model: RMA-223-UV

1.5 Testing Environment

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

1.6 Testing Base

- [ON BAS20LT1G]

<https://www.onsemi.com/pdf/datasheet/bas19lt1-d.pdf>



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Analysis Summary

Solderability Analysis:

Applicable Standard: MIL-STD-883L-2019 2003.13

Solderability tested were performed on 4 PCS samples using the dip and look methods. 4 PCS pass solderability test. The dipped portion of the terminations is more than 95% covered by a continuous new solder coating.



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1. Device Description:

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

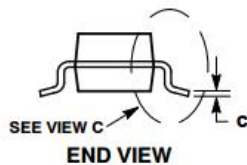
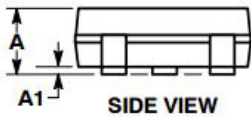
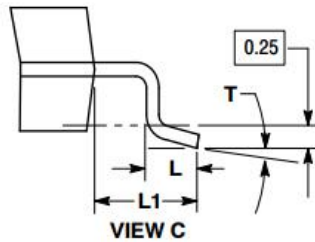
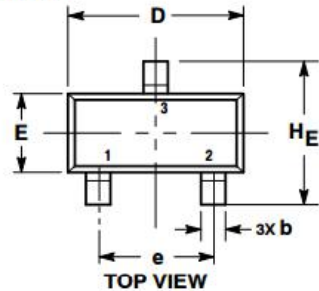
2. Package Dimensions:



SOT-23 (TO-236)
 CASE 318-08
 ISSUE AS

DATE 30 JAN 2018

SCALE 4:1



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°



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3. Receiving Inspection:

Gross Weight	36 g	Parts Total	4 PCS
Number Of Boxes	N/A	Full Label	Non Present
Package type	Reel	Moisture protection	Non Present
MSL	N/A	ESD protection	Acceptable

Note: All devices contain 1 PCS of D/C 1018 , 1 PCS of D/C 1111, 1 PCS of D/C 1328, 1 PCS of D/C 1538.

Received View-1



Received View-2





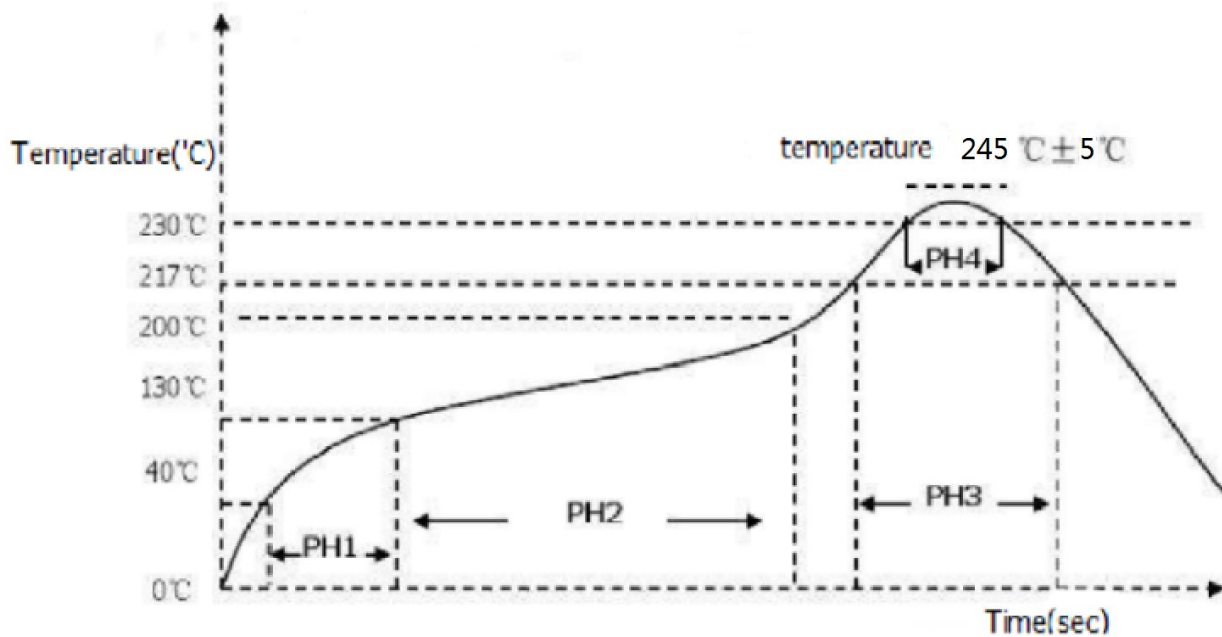
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4. Solderability Analysis:

Applicable Standard: MIL-STD-883L-2019 2003.13

Solderability tested were performed on 4 PCS samples using the dip and look methods. 4 PCS pass solderability test. The dipped portion of the terminations is more than 95% covered by a continuous new solder coating.

Testing condition:



Furnace temperature curve analysis

Room Temperature	27.1°C	Relative Humidity	58%
Immersion speed and lifting speed	0.984 in	Flux Immersion Angle	45°
Solder Pot Temperature	245°C	Solder material	Sn-Ag3.0Cu0.5
Solder Method	Dip and Look Test	Solder Immersion Time	5S



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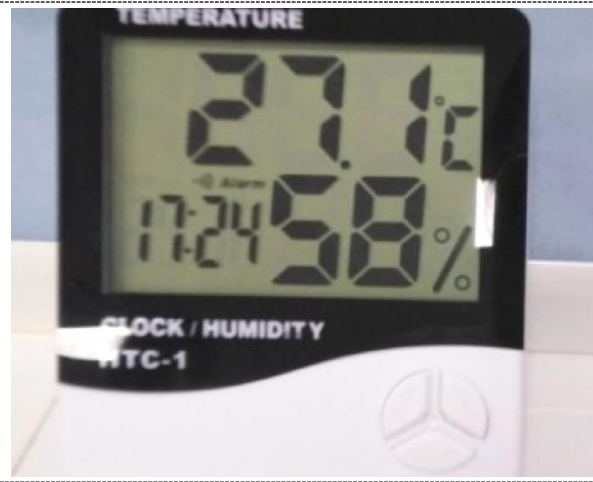


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Tin Furnace Temperature



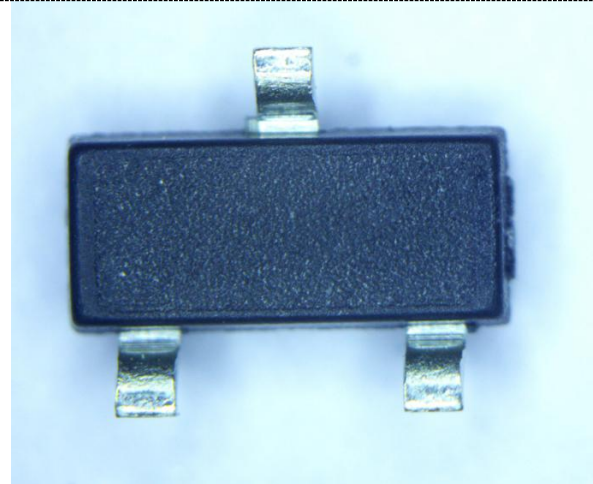
Humidity



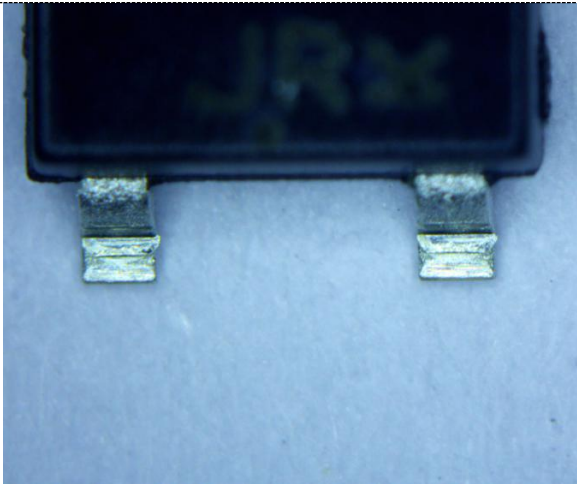
D/C1018 -Before Top View



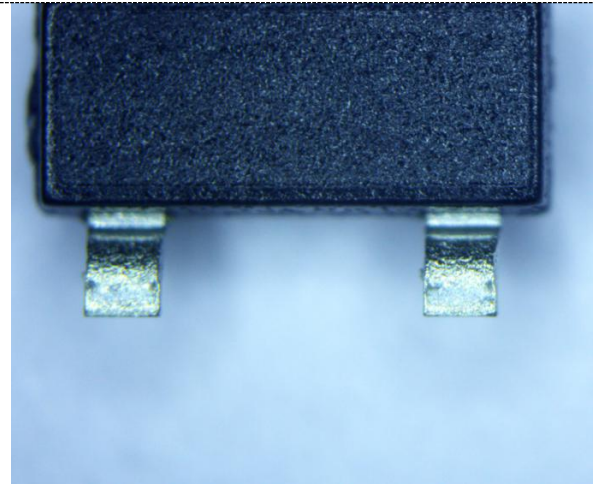
D/C1018 -Before Bottom View



D/C1018 -Before Top Leads



D/C1018 -Before Bottom Leads





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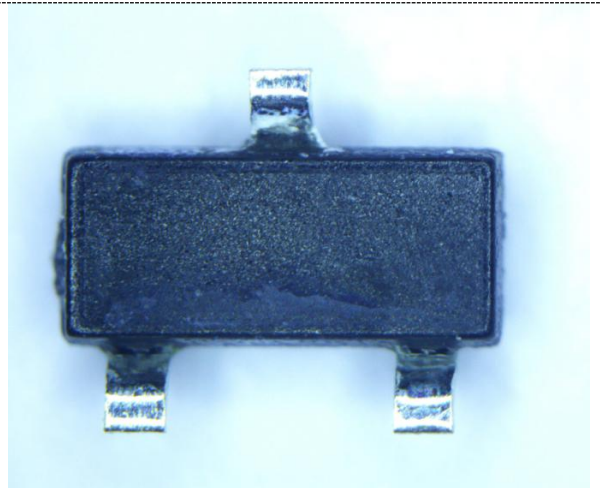


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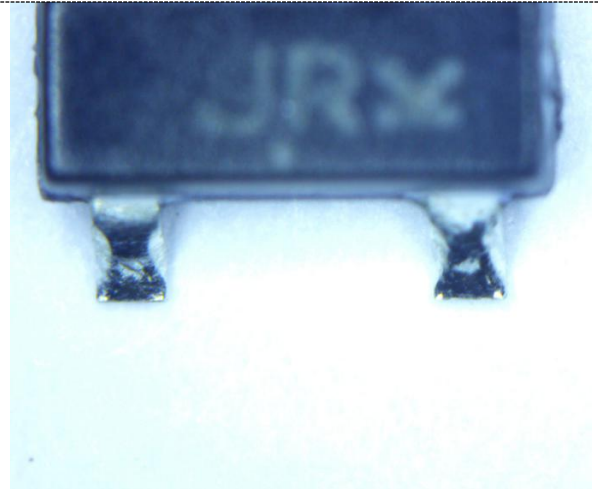
D/C1018 -After Top View



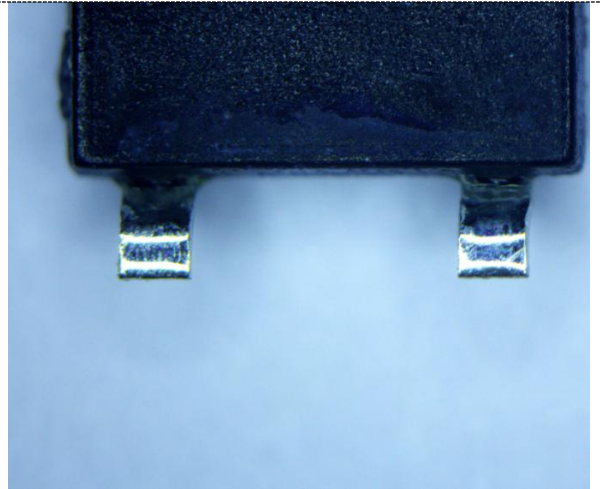
D/C1018 -After Bottom View



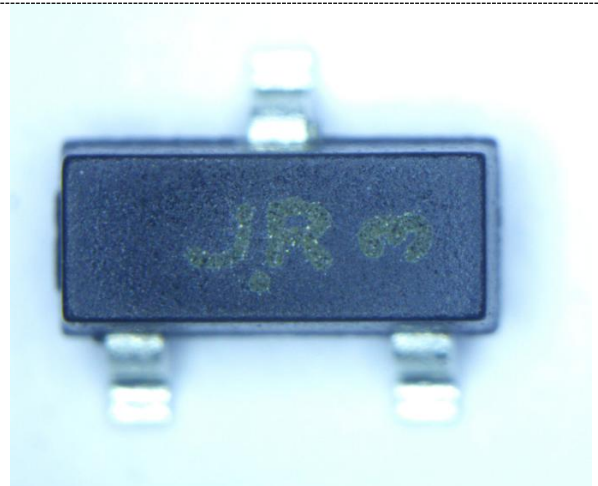
D/C1018 -After Top Leads



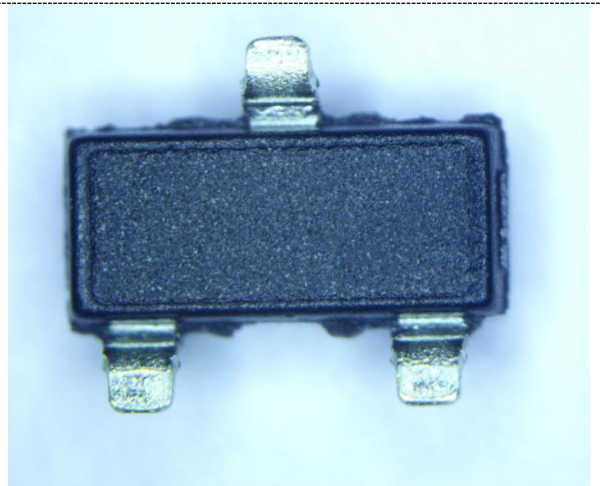
D/C1018 -After Bottom Leads



D/C1111 - Before Top View



D/C1111 - Before Bottom View





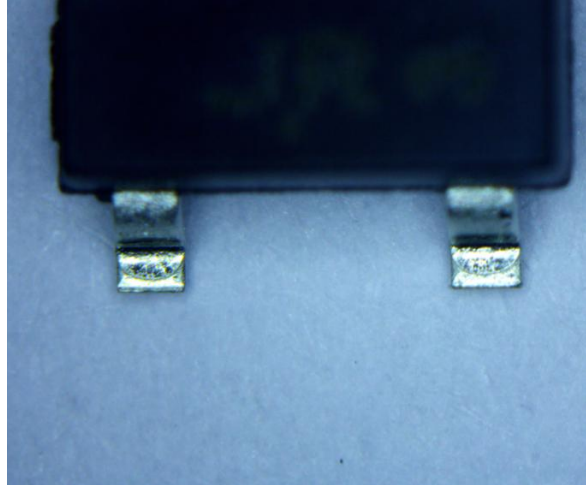
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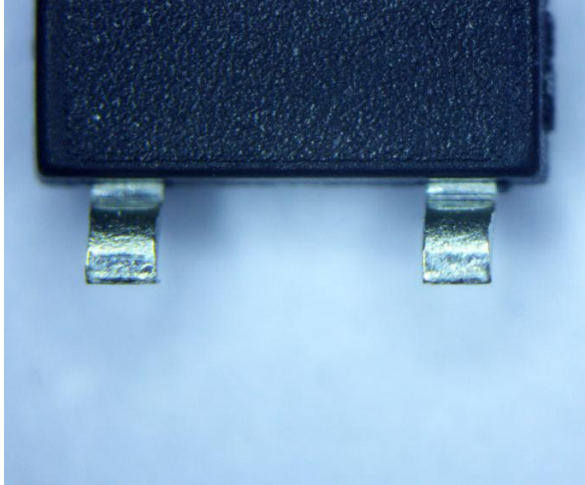


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D/C1111 - Before Top Leads



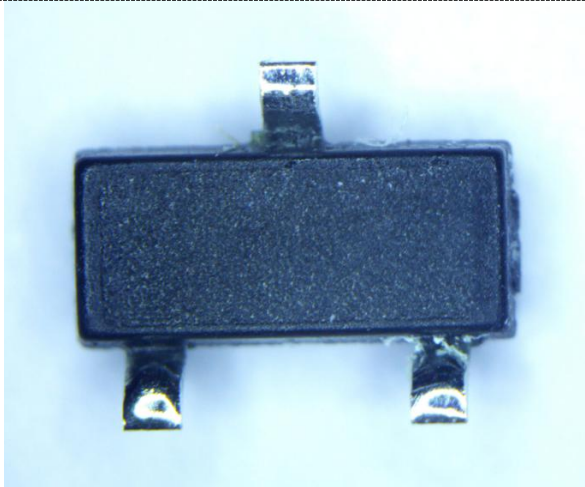
D/C1111 - Before Bottom Leads



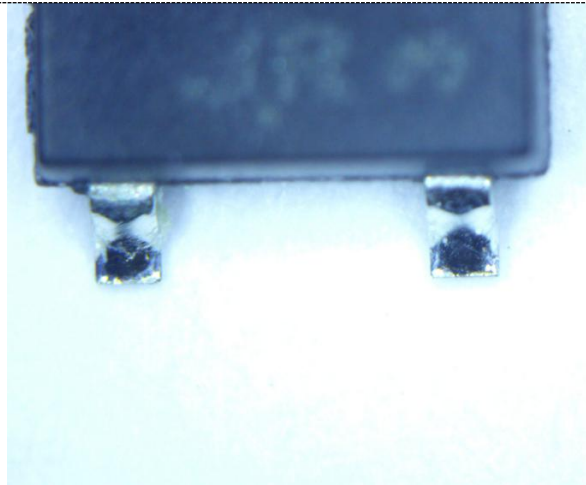
D/C1111 - After Top View



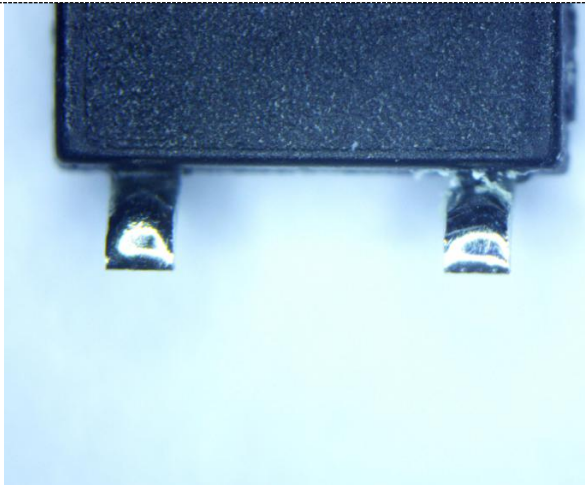
D/C1111 - After Bottom View



D/C1111 - After Top Leads



D/C1111 - After Bottom Leads





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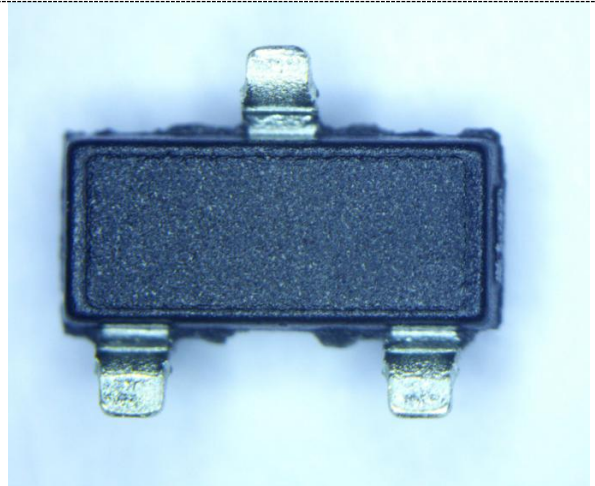


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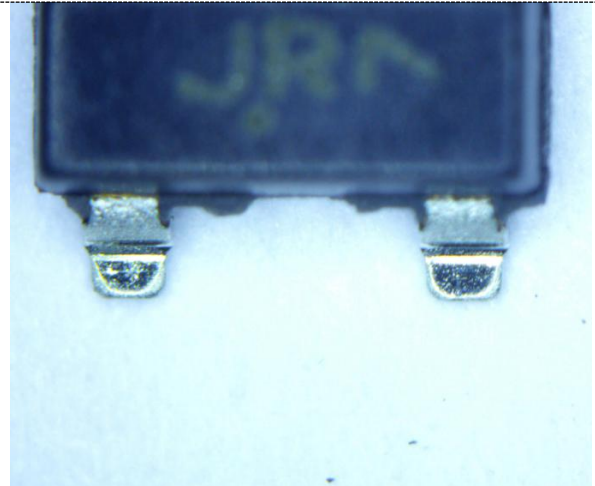
D/C1328 - Before Top View



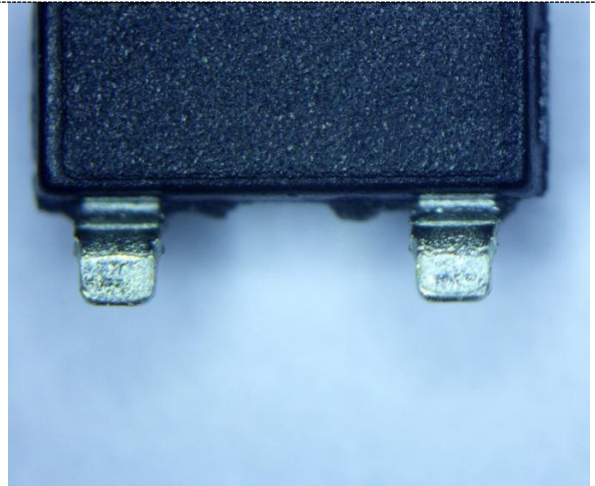
D/C1328 - Before Bottom View



D/C1328 - Before Top Leads



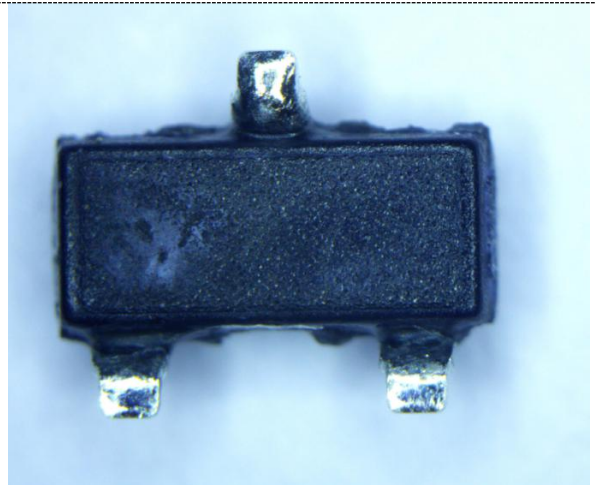
D/C1328 - Before Bottom Leads



D/C1328 - After Top View



D/C1328 - After Bottom View





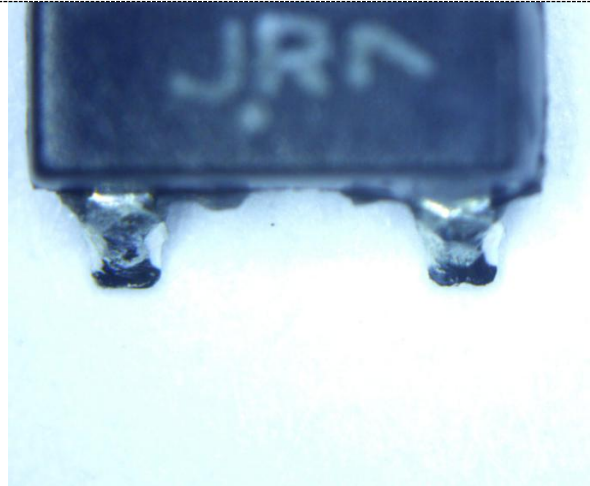
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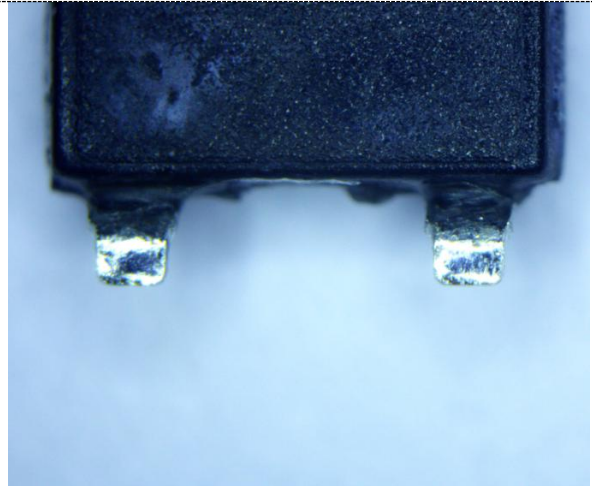


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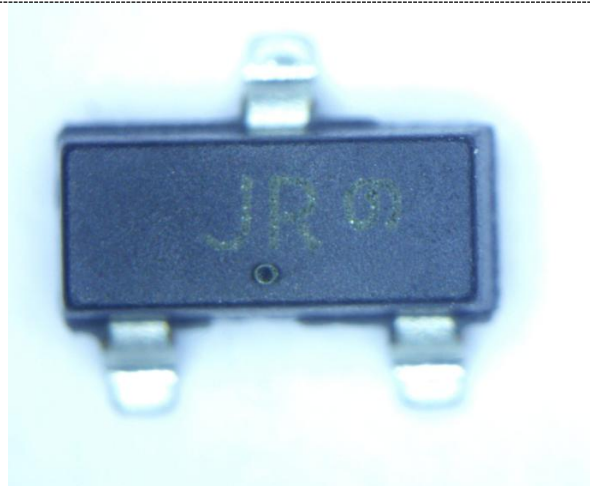
D/C1328 - After Top Leads



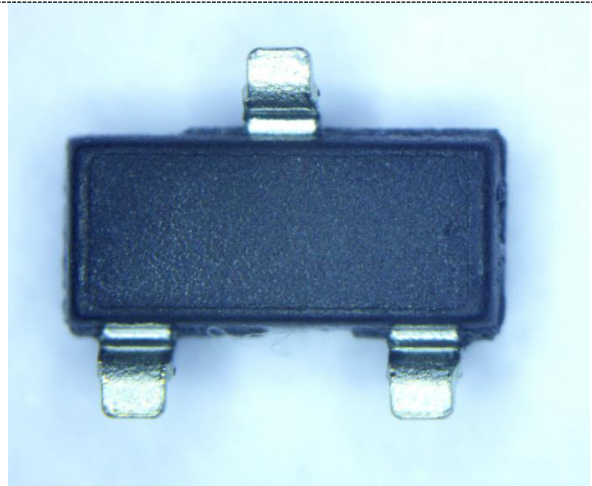
D/C1328 - After Bottom Leads



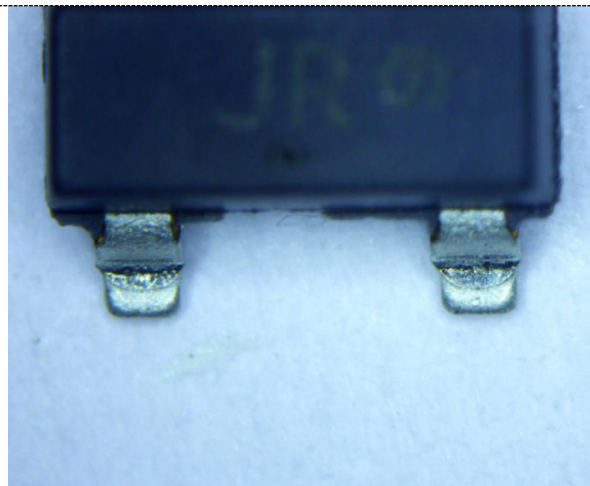
D/C1538 - Before Top View



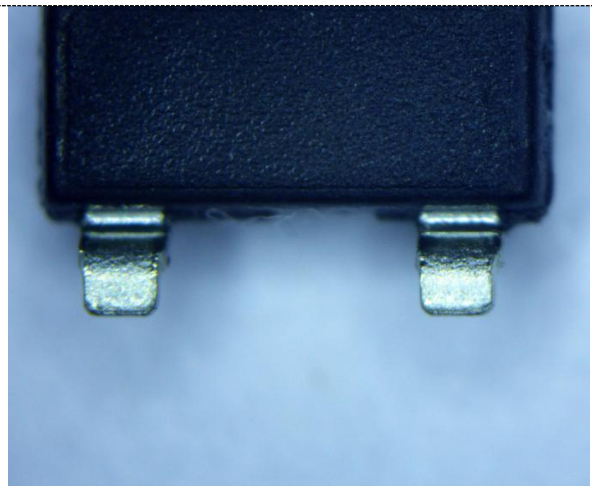
D/C1538 - Before Bottom View



D/C1538 - Before Top Leads



D/C1538 - Before Bottom Leads





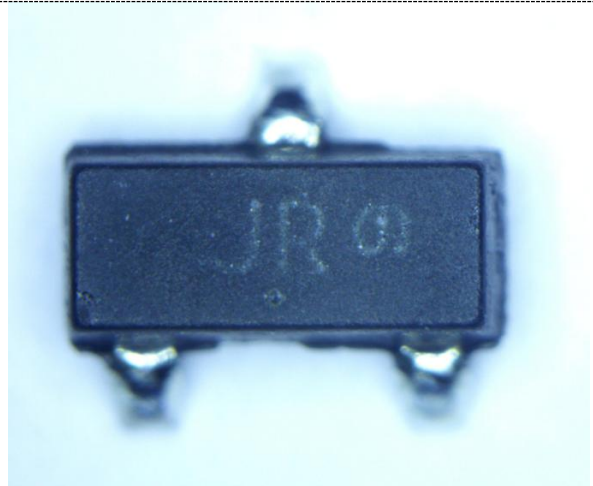
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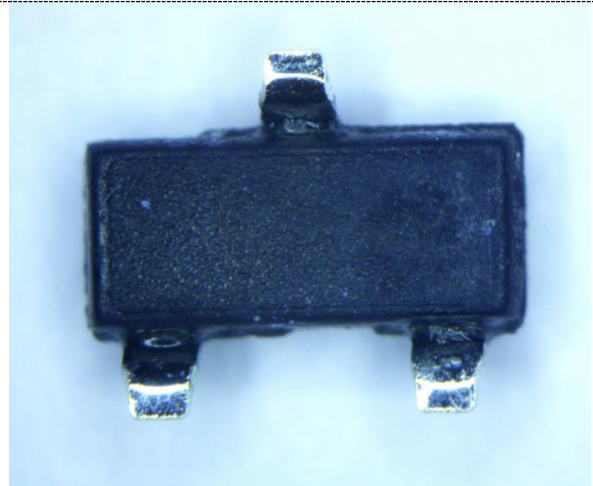


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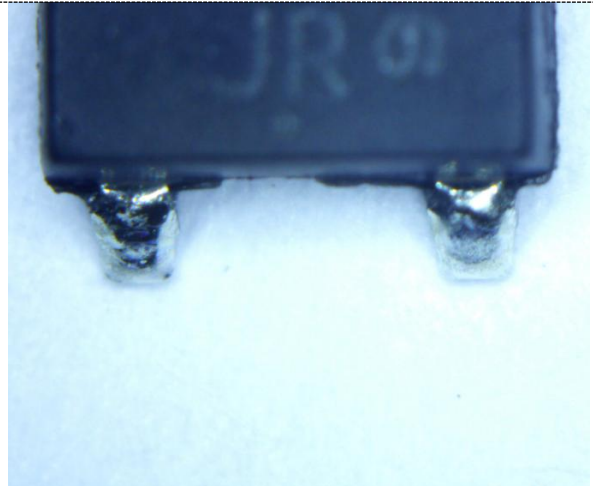
D/C1538 - After Top View



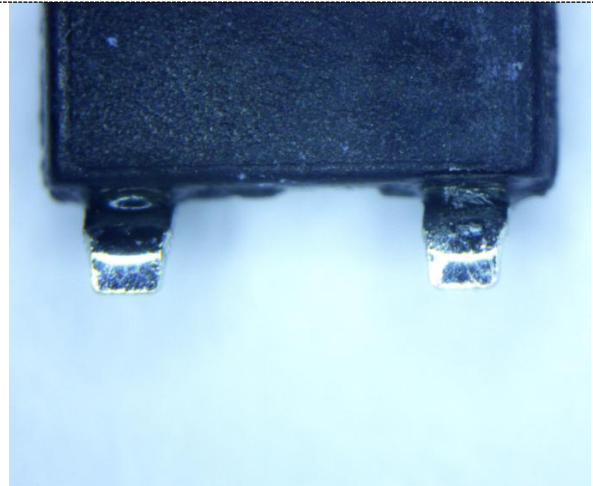
D/C1538 - After Bottom View



D/C1538 - After Top Leads



D/C1538 - After Bottom Leads



End



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CXO Lab WeChat official account

