

PRODUCT ADVISORY NOTICE

KEEPING YOU INFORMED OF PRODUCT CHANGES

To: All Customers, Sales Representatives and Distributors
Date: August 3, 2026
Subject: Addition of Alternative MOSFET Suppliers for 3KG2, 3JG2, 3D32, 3D50, 3D70, 3D101 and 3D2104 Standard Products

This Product Advisory Notice is to alert you that Grayhill is adding 3 additional qualified parts for an electronic component (MOSFET) used in our 3KG2, 3JG2, 3D32, 3D50, 3D70, 3D101, and 3D2104 standard products. Our records show that you have purchased at least one of the affected part numbers in the past 5 years. ***Please forward this notification to the appropriate person(s) in your organization.***

Description of Change

Vishay recently informed its customers that MOSFET part number SI7172DP-T1-GE3 will not be available until September 2027. Grayhill validated 3 alternative components that will be used to ensure production once supply of the current Vishay part runs out.

Existing component: Vishay SI7172DP-T1-GE3
Alternative component 1: Infineon BSC500N20NS3GATMA1
Alternative component 2: Infineon BSC320N20NS3GATMA1
Alternative component 3: Toshiba TPH6400ENH,L1Q

This component is used to clamp input voltage to a safe level for downstream electronics. Grayhill performed load dump testing on samples of our standard products to ensure adequate performance is maintained. Please see the attached lab report for details.

Reason for Change

Current part will not be available again until September 2027.

Effective Date

Products shipped from Grayhill on or after August 19, 2026 may include any approved part number. Grayhill has full batch traceability of the part used on all production batches.

Part Numbers Affected

Affected part numbers are listed on pages 2-3.

Action Required

Please contact your Grayhill, Inc. Sales Area Leader for further information.

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BULLETIN #1392 Page 1 8/12/2026

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Part Numbers Affected

Standard Part Numbers

3D101DEV-200	3D70VX-200-C-E0	3J1305-G2-C3AG	3K108-G2-2RN3AG
3D101VT-200	3D70VX-200E	3J1305-G2-C3AW	3K108-G2-2RN3AW
3D101VT-200-E0	3D70VX-200-E0	3J1305-G2-N3AG	3K108-G2-4RC3AG
3D101VX-200	3D70VX-300	3J1305-G2-N3AW	3K108-G2-4RC3AW
3D2104DEV-100	3D70VX-300-C	3J2005-G2-C3AG	3K108-G2-4RN3AG
3D2104DEV-200	3D70VX-300-C-E0	3J2005-G2-C3AW	3K108-G2-4RN3AW
3D2104TK-100	3D70VX-300-E0	3J2005-G2-N3AG	3K112-2G-4RC3AW
3D2104TK-200	3D70XT-200-C	3J2005-G2-N3AW	3K112-G2-4RC3AG
3D2104TK-200-E0	3J0005-G2-C3AG	3J2015-G2-C3AG	3K112-G2-4RC3AW
3D2104XK-100	3J0005-G2-C3AW	3J2015-G2-C3AW	3K112-G2-4RN3AG
3D2104XK-100-E0	3J0005-G2-C3GG	3J2015-G2-N3AG	3K112-G2-4RN3AW
3D2104XK-200	3J0005-G2-N3AG	3J2015-G2-N3AW	3K115-G2-3RC3AG
3D32HK-200	3J0005-G2-N3AW	3J2115-G2-C3AG	3K115-G2-3RC3AW
3D32HKK-200	3J0005-G2-N3GG	3J2115-G2-C3AW	3K115-G2-3RN3AG
3D32HKK-300	3J0015-G2-C3AG	3J2115-G2-N3AG	3K115-G2-3RN3AW
3D32XK-200	3J0015-G2-C3AW	3J2115-G2-N3AW	3K206-G2-2RC3AG
3D32XKR-200	3J0015-G2-N3AG	3J2205-G2-C3AG	3K206-G2-2RC3AW
3D50DEV-100	3J0015-G2-N3AW	3J2205-G2-C3AW	3K206-G2-2RN3AG
3D50DEV-100-C	3J0115-G2-C3AG	3J2205-G2-N3AG	3K208-G2-2RC3AG
3D50DEV-200	3J0115-G2-C3AW	3J2215-G2-C3AG	3K208-G2-2RC3AW
3D50DEV-300	3J0115-G2-N3AG	3J2215-G2-C3AW	3K208-G2-2RN3AG
3D50VT-100	3J0205-G2-C3AG	3J2215-G2-N3AG	3K208-G2-2RN3AW
3D50VT-100-C	3J0205-G2-C3AW	3J2215-G2-N3AW	3K208-G2-4RC3AG
3D50VT-101	3J0205-G2-N3AG	3J2305-G2-C3AG	3K208-G2-4RC3AW
3D50VT-200	3J0205-G2-N3AW	3J2305-G2-C3AW	3K208-G2-4RN3AG
3D50VT-200-C	3J0215-G2-C3AG	3J2305-G2-N3AG	3K208-G2-4RN3AW
3D50VT-300	3J0215-G2-C3AW	3J2305-G2-N3AW	3K212-G2-4RC3AW
3D50VT-300-C	3J0215-G2-N3AG	3K006-G2-2RC3AG	3K212-G2-4RN3AG
3D50VX-100	3J0215-G2-N3AW	3K006-G2-2RC3AW	3K212-G2-4RN3AW
3D50VX-100-C	3J0305-G2-C3AG	3K006-G2-2RN3AG	3K215-G2-3RC3AG
3D50VX-200	3J0305-G2-C3AW	3K006-G2-2RN3AW	3K215-G2-3RC3AW
3D50VX-200-C	3J0305-G2-N3AG	3K008-G2-2RC3AG	3K215-G2-3RN3AG
3D50VX-300	3J0305-G2-N3AW	3K008-G2-2RC3AW	3K215-G2-3RN3AW
3D50VX-300-C	3J1005-G2-C3AG	3K008-G2-2RN3AG	
3D70DEV-100	3J1005-G2-C3AW	3K008-G2-2RN3AW	
3D70DEV-100-C	3J1005-G2-N3AG	3K008-G2-4RC3AG	
3D70DEV-200	3J1005-G2-N3AW	3K008-G2-4RC3AW	
3D70DEV-200-C	3J1015-G2-C3AG	3K008-G2-4RN3AG	
3D70DEV-300	3J1015-G2-C3AW	3K008-G2-4RN3AW	
3D70VT-100	3J1015-G2-N3AG	3K012-G2-4RC3AG	
3D70VT-100-C	3J1015-G2-N3AW	3K012-G2-4RC3AW	
3D70VT-100-C-E0	3J1115-G2-C3AG	3K012-G2-4RN3AG	
3D70VT-200	3J1115-G2-C3AW	3K012-G2-4RN3AW	
3D70VT-200-C	3J1115-G2-N3AG	3K015-G2-3RC3AG	
3D70VT-200-E0	3J1115-G2-N3AW	3K015-G2-3RC3AW	
3D70VT-300	3J1205-G2-C3AG	3K015-G2-3RN3AG	
3D70VT-300-C	3J1205-G2-C3AW	3K015-G2-3RN3AW	
3D70VT-300-E0	3J1205-G2-N3AG	3K106-G2-2RC3AG	
3D70VX-100	3J1205-G2-N3AW	3K106-G2-2RC3AW	
3D70VX-100-C	3J1215-G2-C3AG	3K106-G2-2RN3AG	
3D70VX-100-E0	3J1215-G2-C3AW	3K106-G2-2RN3AW	
3D70VX-200	3J1215-G2-N3AG	3K108-G2-2RC3AG	
3D70VX-200-C	3J1215-G2-N3AW	3K108-G2-2RC3AW	
3DYY32C-335	3JYY1115-G2-265-2	3KYY1008-G2-902N-1	

3D Custom Variants

3DYY1018-2
3DYY1028-1
3DYY1028-PI
3DYY2104C-247
3DYY2104C-252
3DYY2104C-254
3DYY2104C-269
3DYY2104C-270
3DYY2104C-287
3DYY32C-186
3DYY32C-198
3DYY32C-209
3DYY32C-213
3DYY32C-217
3DYY32C-220
3DYY32C-221
3DYY32C-232
3DYY32C-293
3KYY1106-G2-951-1N



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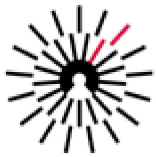
8/12/2026

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3DYY50C-247	3JYY1115-G2-268	3KYY1008-G2-913	3KYY1106-G2-951-2N
3DYY50C-260	3JYY1215-G2-206	3KYY1008-G2-924	3KYY1108-G2-654
3DYY50C-263	3JYY1215-G2-208	3KYY1008-G2-938	3KYY1108-G2-658
3DYY50C-281	3JYY1215-G2-209	3KYY1012-G2-470	3KYY1108-G2-723
3DYY50C-304	3JYY1215-G2-218	3KYY1012-G2-583	3KYY1108-G2-724
3DYY50C-314	3JYY1215-G2-221	3KYY1012-G2-627	3KYY1108-G2-727
3DYY50C-317	3JYY1215-G2-221-2	3KYY1012-G2-657	3KYY1108-G2-768
3DYY70C-255	3JYY1215-G2-233	3KYY1012-G2-668	3KYY1108-G2-769
3DYY70C-258	3JYY1215-G2-236	3KYY1012-G2-693	3KYY1108-G2-777
3DYY70C-259	3JYY1215-G2-239	3KYY1012-G2-706	3KYY1108-G2-780
3DYY70C-261	3JYY1215-G2-240	3KYY1012-G2-734	3KYY1108-G2-808
3DYY70C-263	3JYY1215-G2-241-2	3KYY1012-G2-748	3KYY1108-G2-827
3DYY70C-266	3JYY1215-G2-243	3KYY1012G2-748N	3KYY1108-G2-839-1
3DYY70C-273	3JYY1215-G2-244	3KYY1012-G2-751	3KYY1108-G2-839-2
3DYY70C-290	3JYY1215-G2-244-B	3KYY1012-G2-828	3KYY1108-G2-854-1
3DYY70C-294	3JYY1215-G2-248	3KYY1012-G2-839	3KYY1108-G2-854-2
3DYY70C-297	3JYY1215-G2-263	3KYY1012-G2-841	3KYY1108-G2-864-1
3DYY70C-302	3JYY1215-G2-266	3KYY1012-G2-878	3KYY1108-G2-864-2
3DYY70C-305	3JYY1305-G2-248	3KYY1012-G2-896	3KYY1108-G2-869
3DYY70C-306	3JYY1305-G2-264	3KYY1012-G2-941	3KYY1108-G2-907
3DYY70C-310		3KYY1012-G2-951-3N	3KYY1108-G2-929
3DYY70C-312	3K Custom Legends	3KYY1106-G2-648	3KYY1108-G2-931
3DYY70C-322	3KYY1008-G2-238	3KYY1106G2-648N	3KYY1108-G2-956
3DYY70C-332	3KYY1008-G2-584	3KYY1106-G2-656	3KYY1115-G2-628
3DYY70C-333	3KYY1008-G2-613	3KYY1106-G2-666	3KYY1115-G2-629
3DYY70C-333-A	3KYY1008-G2-614	3KYY1106-G2-667	3KYY1115-G2-631
3DYY70C-339	3KYY1008-G2-615	3KYY1106-G2-670	3KYY1115-G2-659
3DYY70C-340	3KYY1008-G2-616	3KYY1106-G2-680	3KYY1115G2728-1
	3KYY1008-G2-617	3KYY1106-G2-680-2	3KYY1115G2728-2
3J Custom Legends	3KYY1008-G2-618	3KYY1106-G2-681	3KYY1115-G2-766
3JYY1015-G2-200	3KYY1008-G2-619	3KYY1106-G2-681-2	3KYY1115-G2-767
3JYY1015-G2-205	3KYY1008-G2-620	3KYY1106-G2-692	3KYY1115G2797-1
3JYY1015-G2-210	3KYY1008-G2-655	3KYY1106-G2-726	3KYY1115G2797-2
3JYY1015-G2-211	3KYY1008-G2-672	3KYY1106-G2-750	3KYY1115G2797-3
3JYY1015-G2-212	3KYY1008-G2-697	3KYY1106G2-750N	3KYY1115G2797-4
3JYY1015-G2-215	3KYY1008-G2-698	3KYY1106-G2-786	3KYY1115G2797-5
3JYY1015-G2-217	3KYY1008-G2-699	3KYY1106-G2-808-1	3KYY1115G2797-6
3JYY1015-G2-219	3KYY1008-G2-707	3KYY1106-G2-808-2	3KYY1115-G2-807
3JYY1015-G2-220	3KYY1008-G2-708	3KYY1106-G2-811-1	3KYY1115-G2-815
3JYY1015-G2-222	3KYY1008-G2-709	3KYY1106-G2-811-2	3KYY1115-G2-825
3JYY1015-G2-231	3KYY1008-G2-749	3KYY1106-G2-811-3	3KYY1115-G2-829
3JYY1015-G2-245	3KYY1008G2-749N	3KYY1106-G2-811-4	3KYY1115-G2-849
3JYY1015-G2-246	3KYY1008-G2-783	3KYY1106-G2-811-5	3KYY1115-G2-852
3JYY1015-G2-252	3KYY1008-G2-785	3KYY1106-G2-811-6	3KYY1115-G2-857
3JYY1015-G2-252N	3KYY1008-G2-794	3KYY1106-G2-811-7	3KYY1115-G2-875
3JYY1015-G2-260N	3KYY1008-G2-798	3KYY1106-G2-811-8	3KYY1115-G2-897
3JYY1115-G2-195	3KYY1008-G2-821N-1	3KYY1106-G2-822N	3KYY1115-G2-897-2
3JYY1115-G2-229	3KYY1008-G2-821N-2	3KYY1106-G2-843-1	3KYY1115-G2-897-3
3JYY1115-G2-232	3KYY1008-G2-824	3KYY1106-G2-843-2	3KYY1115-G2-904
3JYY1115-G2-232-2	3KYY1008-G2-840	3KYY1106-G2-877	3KYY1115-G2-904-2
3JYY1115-G2-234	3KYY1008-G2-841	3KYY1106-G2-900	3KYY1115-G2-905
3JYY1115-G2-247	3KYY1008-G2-850	3KYY1106-G2-903	3KYY1115-G2-915
3JYY1115-G2-253	3KYY1008-G2-868	3KYY1106-G2-916	3KYY1115-G2-915-2
3JYY1115-G2-255	3KYY1008-G2-872	3KYY1106-G2-923	3KYY1115-G2-927-1
3JYY1115-G2-258	3KYY1008-G2-881	3KYY1106-G2-948	3KYY1115-G2-927-2
3JYY1115-G2-265-1	3KYY1008-G2-902N	3KYY1106-G2-949	3KYY1115-G2-935





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LREQ-VU19-1120

3D2104TK-200, 3J0115-G2-C3AG

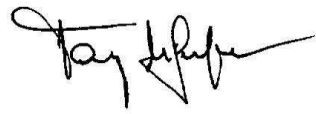
3JYY1115-G2-195, 3KYY1115-G2-659

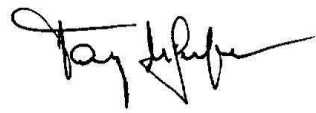
Test replacements for SEQ3329-0053 (PCN-COMM-296)

Quality Test Report

Revision A

August 03, 2026

Testing Performed By:	Terry Nguyen Quality Engineering Specialist	 X
Testing Start Date	July 30, 2026	
Testing End Date	August 03, 2026	

Report Written By:	Terry Nguyen Quality Engineering Specialist	 X
Report Submitted For Approval	August 03, 2026	

Report Approved By:	Nick Walls Quality Lab Manager	 X
Report Approved On	August 3, 2026	

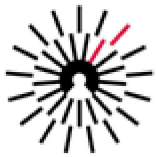
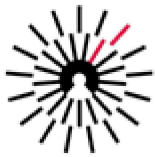


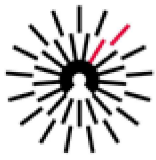
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1.0 REVISION HISTORY

Revision	Report Writer	Date Written	Report Approver	Date Approved	Description
A	Terry Nguyen	August 03, 2026	Nick Walls	August 3, 2026	Initial Release



2.0 TESTING INFORMATION

2.1. PURPOSE

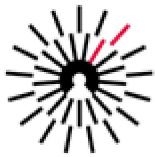
This document contains the report of all testing completed to validate the alternative FETs to replace Vishay *P/N SI7172DP-T1-GE3*. The alternative FETs (parts) to be tested are Infineon part numbers *BSC500N20NS3GATMA1* & *BSC320N20NS3GATMA1*, and Toshiba part numbers *TPH6400ENH,L1Q*. The DUT part numbers being tested are *3D2104TK-200*, *3J0115-G2-C3AG*, *3JYY1115-G2-195*, and *3KYY1115-G2-659*.

2.2. DUT INFORMATION

The devices under test (DUT) are *3D2104TK-200*, *3J0115-G2-C3AG*, *3JYY1115-G2-195*, and *3KYY1115-G2-659*.

2.3. ADDITIONAL NOTES

N/A



3.0 REQUIRED TESTING

3.1. LOAD DUMP – TEST A (WITHOUT CENTRALIZED LOAD DUMP SUPPRESSION)

3.1.1. SUMMARY

Table 1 – Load Dump Test Summary

DUT Serial # / Date Code	DUT Part Number	Test Location	Test Dates	Result
8827/2347 10266/2509 9237/2419	3D2104TK-200	EMC Lab	July 30, 2026	Pass
DUT Serial # / Date Code	DUT Part Number	Test Location	Test Dates	Result
11/2543	3J0115-G2-C3AG	EMC Lab	July 30, 2026	Pass
DUT Serial # / Date Code	DUT Part Number	Test Location	Test Dates	Result
4307/2516 4310/2517	3JYY1115-G2-195	EMC Lab	July 30, 2026	Pass
DUT Serial # / Date Code	DUT Part Number	Test Location	Test Dates	Result
131/2522 129/2522 125/2522	3KYY1115-G2-659	EMC Lab	August 03, 2026	Pass

3.1.2. TEST SPECIFICATION

This test is to be run per ISO 16750-2, Section 4.6.4, Test A – Without centralized load dump suppression.

3.1.3. PURPOSE

The DUT shall survive a simulated load dump occurring in the event of a discharged battery being disconnected while the alternator is generating charging current with other loads remaining on the alternator circuit at this moment, with no degradation in performance or visual changes.

3.1.4. TEST CONDITIONS

Table 2 – Load Dump Test Conditions

Quantity	9
Temperature (°C)	Lab Ambient
Humidity (%RH)	Lab Ambient
System Voltage	24V
Alternator Load Dump Suppression	Without Centralized (Test A)
Operational Mode	Powered & Monitored
Functional Status Class	A

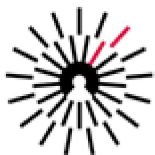


Table 3 – Test Parameters (3D2104TK-200)

24V System	
UA (V)	27
US (V)	173
tr (ms)	10
ts (ms)	350
Ri (Ohms)	1
Interval	60
Pulses	10

**Functional Status: Class A

Table 4 – Test Parameters (3J0115-G2-C3AG, 3JYY1115-G2-195, 3KYY1115-G2-659)

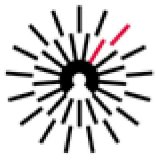
24V System	
UA (V)	27
US (V)	173
tr (ms)	10
ts (ms)	350
Ri (Ohms)	8
Interval	60
Pulses	10

**Functional Status: Class A

3.1.5. TEST PROCEDURE

Perform the test per ISO 16750-2, Section 4.6.4, Test A – Without centralized load dump suppression with the following additions/changes.

1. Visual Inspection of the DUT is to be performed before testing.
2. Check functionality of all DUT before testing.
3. Characterize set-up per test conditions.
4. Turn all test equipment and monitoring system ON.
5. Attach Oscilloscope to the test equipment for pulse verification.
6. Attach DUT to the power supply and monitoring system.
7. Enter all parameters in the program to run per specifications as noted in Table 2 (Load Dump test conditions) and Tables 3 & 4 (Test Parameters) for the specific part number.
8. Test DUT for specified duration and pulses as specified.
9. Monitor DUT throughout the test and record the results.
10. Repeat steps 7 – 9 until all DUT have been tested.
11. Perform the Functional Check after Test.



3.1.6. TEST SETUP

Table 5 – Load Dump Equipment List

Equipment ID	Equipment Type	Model Number	Manufacturer	Last Calibrated Date	Calibration Due Date
GT-2101	Micro Transients	MT 5511 / NSG 5500	Teseq	June 26, 2026	June 30, 2028
GT-2102	Load Dump Generator	LD 5550 / NSG 5500	Teseq	June 26, 2026	June 30, 2028
GT-2103	Fast Transient Generator	LD 5550 / NSG 5500	Teseq	June 26, 2026	June 30, 2028
GT-2104	Power Amplifier / Battery Simulator	PA 5840	Teseq	June 26, 2026	June 30, 2028
GT-2110	Digital Phosphor Oscilloscope	DPO2014B	Tektronix	September 29, 2025	September 30, 2026
GT-162	DC Power Supply	E3649A	Agilent	Verify before Use	Verify before Use
GT-236	Digital Multimeter	87V	FLUKE	August 2025	August 31, 2026
VUI-TEST Laptop # 5	Monitoring Laptop Computer	Precision M4300	DELL	Not Required	Not Required
N/A	Monitoring App.	PCAN-View	PCAN	Not Required	Not Required
GT-174	Temp / Hum Meter	FLUKE 971	FLUKE	June 01, 2026	June 30, 2027

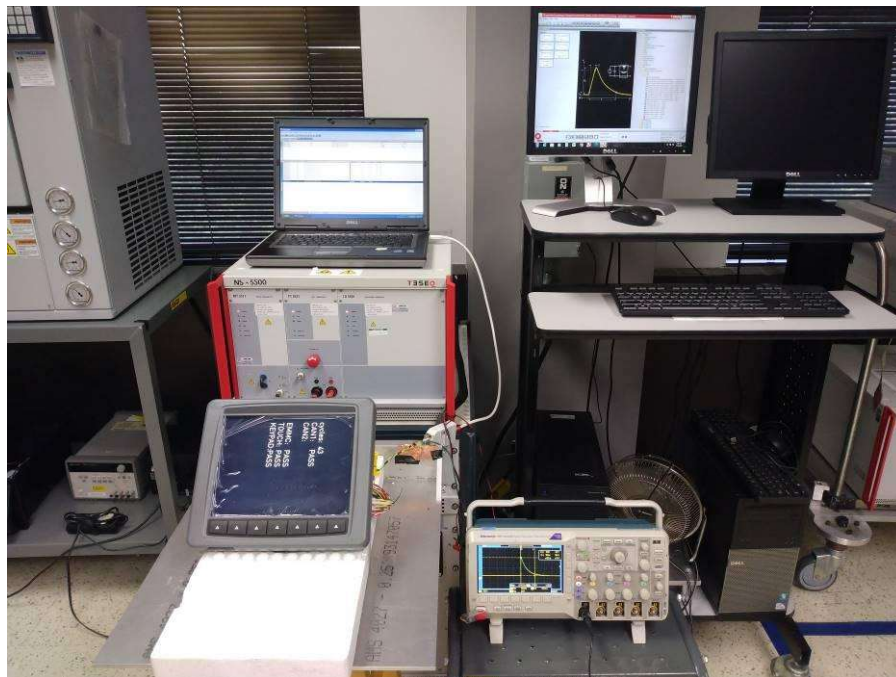


Figure 1 – Load Dump Test Setup (3D2104TK-200)

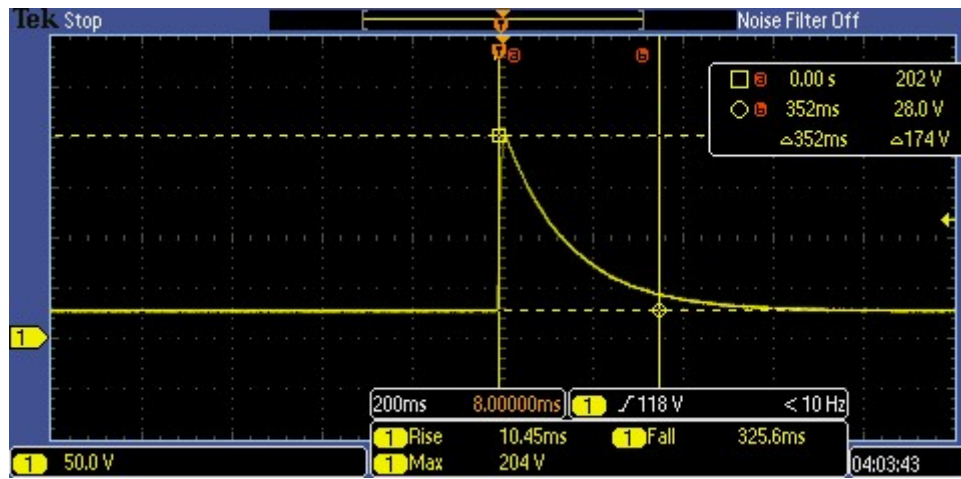
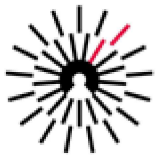


Figure 2 – Load Dump Profile Verification (3D2104TK-200)

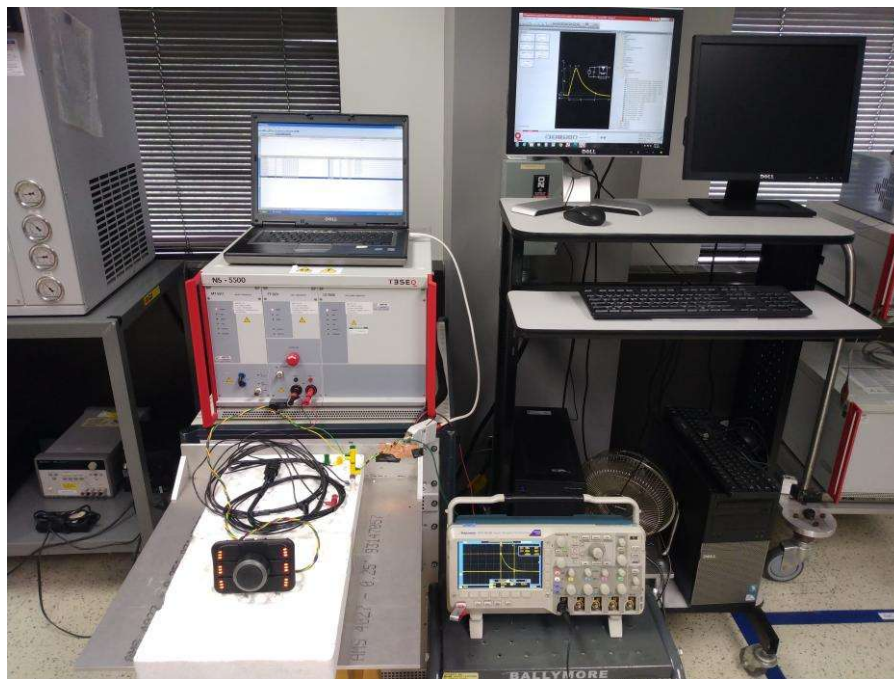


Figure 3 – Load Dump Test Setup (3J0115-G2-C3AG)

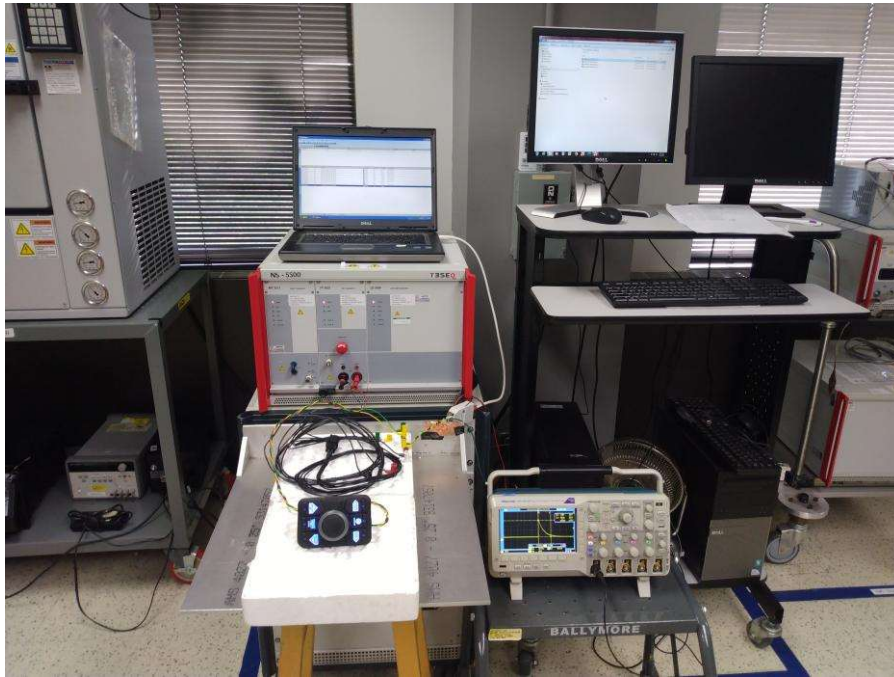
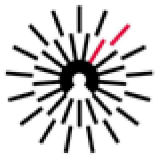


Figure 4 – Load Dump Test Setup (3JYY1115-G2-195)

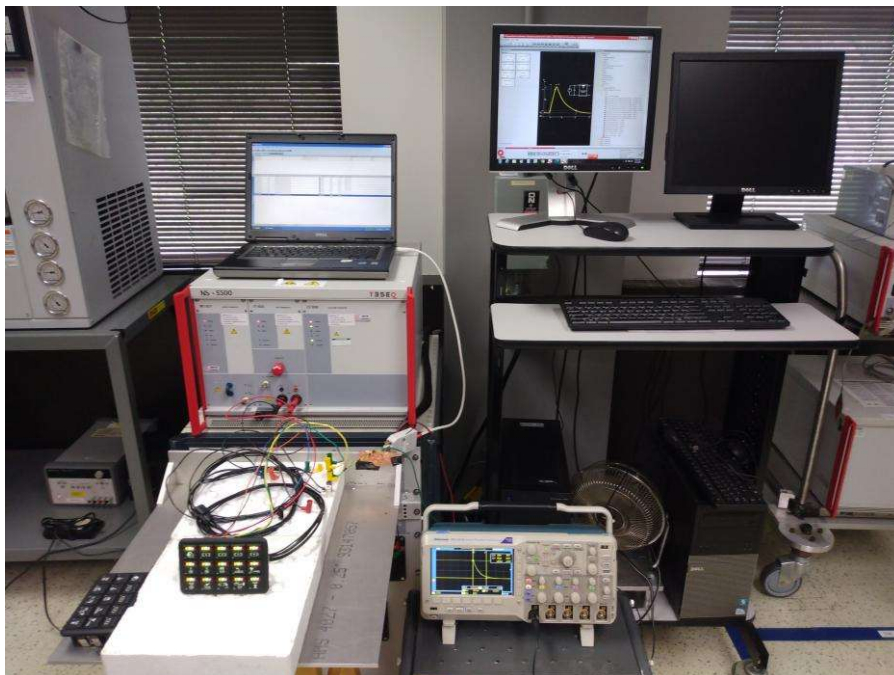


Figure 5 - Load Dump Test Setup (3KYY1115-G2-659)

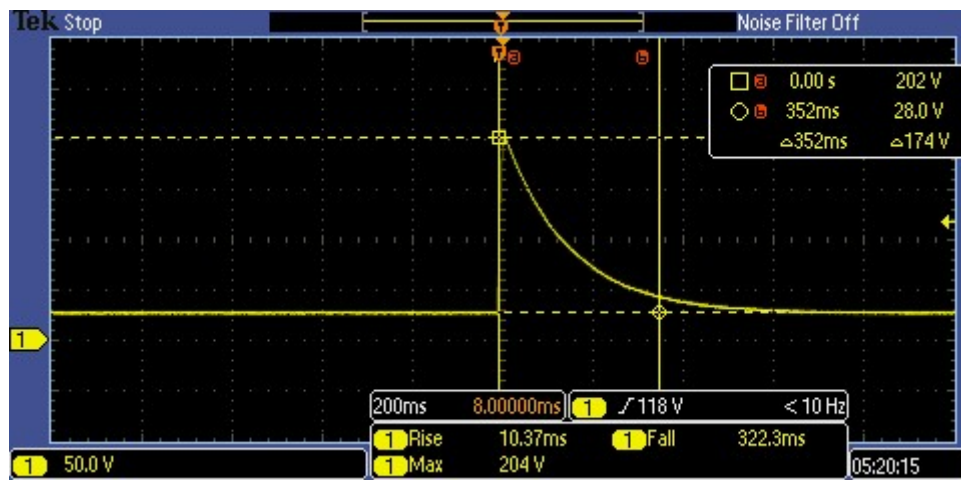
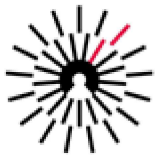


Figure 6 - Load Dump Profile Verification (3J0115-G2-C3AG, 3JYY1115-G2-195, and 3KYY1115-G2-659)

3.1.7. COMPLIANCE CRITERIA

The DUT shall pass the BASIC Functionality checks as noted in the Test Procedure (3.1.5).

The DUT shall meet the Functional Status A.

3.1.8. TEST RESULTS

Table 6 – Load Dump Test Results (Part No. 3D2104TK-200)

DUT Serial Number	DUT Date Code	Alternative FETs	Result (Functional Status)
10266	2509	BSC500N20NS3GATMA1	A - Pass
8827	2347	BSC320N20NS3GATMA1	A - Pass
9237	2416	TPH6400ENH, L1Q	A - Pass

Table 7 – Load Dump Test Results (Part No. 3J0115-G2-C3AG)

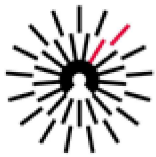
DUT Serial Number	DUT Date Code	Alternative FETs	Result (Functional Status)
11	2543	TPH6400ENH, L1Q	A - Pass

Table 8 – Load Dump Test Results (Part No. 3JYY1115-G2-195)

DUT Serial Number	DUT Date Code	Alternative FETs	Result (Functional Status)
4310	2517	BSC500N20NS3GATMA1	A - Pass
4307	2516	BSC320N20NS3GATMA1	A - Pass

Table 9 – Load Dump Test Results (Part No. 3KYY1115-G2-659)

DUT Serial Number	DUT Date Code	Alternative FETs	Result (Functional Status)
129	2522	BSC500N20NS3GATMA1	A - Pass
131	2522	BSC320N20NS3GATMA1	A - Pass
125	2522	TPH6400ENH, L1Q	A - Pass



3.1.9. TEST SUMMARY

Testing was completed per the test specification and test conditions stated. DUT passed the BASIC Functionality Checks after the test and met Functional Status A.