2026

ICEMOS SUPERJUNCTION MOSFET
Product Qualification Reliability Test Report

ICE10N65FP

Report Description
This report describes the characteristics of the product as it pertains to the device quality and reliability. The samples used for this qualification were taken from production lots that were manufactured and tested using our standard production processes and meet the device specifications.

The qualification test results of the product as outlined in this document are based on recognized industry standard reliability test methods.

Qualification Assessment
This product has successfully completed all qualification reliability testing to meet the recognized industry standards and is therefore granted “Full Qualification” status from 2026. This reliability report is subject to appropriate updates as required.

For additional information, please contact your IceMOS Sales Representative. (www.icemostech.com).

ISSUED BY: ICEMOS TECHNOLOGY

ICE10N65FP Reliability Test Report

Product: ICE10N65FP
Package: TO220 FULLPAK 3L (Isolated)
MSL Level: MSL-1

Items	Test Description(Abbr.)	Test method.	Stress Condition	Sample Qty.	Electrical Reject	Result
1	Temperature Cycle(**TCT**)	JESD22-A104	1000 cycles, Δ Tj -55 to 150˚C	77pcs*1lot	0/77	PASS
2	High Temp storage(**HTS**)	Mil-Std. 750 Method 1032	500 hrs, Tj = 150˚C	77pcs*1lot	0/77	PASS
3	Steady State Gate Bias positive (**HTGB)**	Mil-Std. 750 Method 1042-B	1000 hrs, VGS = +24V Tj = 150˚C	80pcs*1lot	0/80	PASS
4	Steady State Gate Bias negative (**HTGB)**	Mil-Std. 750 Method 1042-B	1000 hrs, VGS = -24V Tj = 150˚C	80pcs*1lot	0/80	PASS
5	Steady State Reverse bias (**HTRB)**	Mil-Std. 750 Method 1042-A	1000 hrs, VDS = 584V Tj = 150˚C	77pcs*1lot	0/77	PASS
6	High Temp High Humidity Reverse Bias (**H3TRB**)	Mil-Std. 750 Method 1042-A	1000 hrs, VDS = 480V Tj = 85˚C, RH = 85%	77pcs*1lot	0/77	PASS

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Revision Record

Rev 0 2026	- new