

# UJC06505K / UJC1206K / UJC1210K

## Product Qualification Report

Description:	Cascode – 4 Inch, 650V / 1200V
Package Type:	TO-247
Process Technology:	SiC, Si MOSFET
Date issued:	09/29/2017

Test Name	Test Standard	# Samples x # Lots	Results
High Temperature Reverse Bias (HTRB)	MIL-STD-750-1 M1038 Method A (1000 Hours) TJ=175oC, V=80% Vmax	77x5 lots	Pass
High Temperature Gate Bias (HTGB)	JESD22 A-108 (1000 Hours) TJ=175oC, V=100% Vmax (+25V), bias in on direction	77x5 lots	Pass
Highly Accelerated Stress Test (HAST)	JESD22 A-110 (96 Hours) TA=130oC/85%RH	77x5 lots	Pass
Intermittent Operating Life (IOL)	MIL-STD-750 Method 1037 DTJ ≥125°C, 3000 cycles (5 minutes on/ 5 minutes off)	77x3 lots	Pass
Temperature Cycle (TC)	JESD22 A-104 (1000 Cycles)	77x3 lots	Pass
Autoclave (PCT)	JESD22 A-102 121°C/ RH = 100%, 96 hours, 15psig	77x5 lots	Pass

### Conclusion

This report summarizes the reliability tests applied to USCi products listed above. As a result of the testing, these products are considered qualified and available for unrestricted use within the limitations prescribed by the appropriate datasheets.