

## Spacelite<sup>TM</sup> Commercial Qualification

Test	Sample Size	Standard	Spacelite Commercial
Electrical Test	100%		Per Device Datasheet
Subgroup 1: Highly Accelerated Temperature and Humidity Stress Test	45(0)	JESD22-A110	TA = 130C, 85%RH, 230kPa, 96 hours, VDS = 42V
Subgroup 2: High Temperature Reverse Bias	45(0)	JESD22A-108	TA = 150C, 1000 hours, VDS=600V
Subgroup 3: High Temperature Gate Bias Test	45(0)	JESD22A-108	TA = 150C, 1000 hours, VGS = 30 V
Subgroup 4: Temperature Cycle	45(0)	JESD22-A104	-65C~+150C: Tdwel ≥10min, 500 cycles
Subgroup 5: Resistance to Solder Heat	22(0)	JESD22A-B106	270C (+5C/-5C), 7s (+2s/-0s)
Subgroup 6: Solderability	22(0)	JESD22-B102	Steam Precondition 8 hours: 245C, 5s, solder area > 95%
Subgroup 7A: Electrical Test (DC1)	5(0)		Per Device Datasheet
Subgroup 7B: Steady State Power	5(0)	MIL-STD-750: TM1042-C	168 hours, TJ = Max Rating
Subgroup 7C: Electrical Test (DC2)	5(0)		Per Device Datasheet
Subgroup 7D: Radiation Dosage	5		10kRad, VGS = 15V
Subgroup 7E: Electrical Test (DC3)	5		Per Device Datasheet
Subgroup 7F: Anneal Bake	5		168 hours, TA = 100C
Subgroup 7G: Electrical Test (DC4)	5(0)		Per Device Datasheet