

No.	Test Item	Condition	Reference	Test time	Scope
1	Pre-conditioning	Performed on surface mount devices (SMDs) prior to TC, AC, H3TRB/HAST & IOL/PTC stresses only.	JESD22A-113	1. Temperature Cycling: -40°C~60°C, 5cycles; 2. Bake: 125°C, 24H; 3. Moisture Soak: 85±2°C, 85±5%/168h; 4. Reflow*3cycles: 260°C, 3cycles time 5-60min	Only For SMD Series
2	High Temperature Reverse Bias	Tjmax, 80%VR (Zener 100%Vz, TVS 100%Vrwm) Tjmax, 100%VR (Only For AECQ)	JESD22-A108	1000Hrs	All Series
3	High Temperature Gate Bias	Tjmax, 100%Vgs	JESD22-A108	1000Hrs	Only For MOS
4	Intermittent Operational Life	ΔTj ≥ 100°C, 2min ON/2min OFF	MIL-STD-750 Method 1037	15000Cycles	Except for TVS&Zener Series
5	High-temperature High-humidity Reverse Bias	85±2°C, 85%±5%RH, 80%VR (Max=100V)	JESD22-A101	1000Hrs	All Series
6	Highly Accelerated Stress Test	130±2°C, 85%±5%RH 80%VR (Max=42V)	JESD22-A101	96Hrs	All Series
7	High-temperature High-humidity storage test	85±2°C, 85±5%RH	MIL-STD-202F METHOD-103B	1000Hrs	All Series
8	Temperature Cycling	150°C (+15, -0) /15min, -55°C (+0, -10) /15min	JESD22-A104	1000 cycles	All Series
9	High Temperature Storage	150°C (+10, -0)	JESD22-A103	1000Hrs	All Series
10	Low Temperature storage	-55°C	Specification	1000Hrs	All Series
11	Auto-clave	121°C ± 2°C, 15 psig, 100%RH	JESD22-A102	96Hrs	All Series
12	Salt Spray Test	35±2°C, 5±0.1%, 6.5-7.2, 1~2ml/80cm².h	GB/T 2423.17-2008	24Hrs	All Series
13	Solderability	235°C ± 5°C	J-STD-002	3Sec	All Series
14	Resistance to solder heat	DIP: 270 ± 5°C SMD: 260°C (+5, -0)	JESD22-B106 JESD22-A111	DIP: 7sec (+2, -0) SMD: 10sec	All Series
15	Bending Strength	φ0.6mm~0.78mm, W=0.5Kg, 90±5° > φ1.2mm, W=2Kg, 90±5°	MIL-STD-750 Method 2036	3Times	Axial Series
16	Terminal Strength	φ0.6mm~0.78mm, W=1Kg > φ1.2mm, W=3Kg	MIL-STD-750 Method 2036	15Sec	Axial Series
17	Forward Surge Test	8.3ms, Single, Half-Wave	MIL-STD-750 Method 4066	5Times	All Series
18	ESD Test	HBM: 100pF, 1500Ω, GPP: 4KV; Others: 2KV; MM: 200pF, 0.400V	AEC-Q101-001/002	1cycle	All Series

