

Test Items 測試項目	Test Conditions 測試條件	Sampling Plan 抽樣計劃	Frequency 頻率
High Temperature Storage Test 高溫貯存測試	$T_a = T_{\text{stg Max.}} \pm 5^\circ\text{C}$ 168+16/-10hrs	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
Low Temperature Storage Test 低溫貯存測試	$T_a = T_{\text{stg Min.}} \pm 5^\circ\text{C}$ 168+16/-10hrs	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
High Temperature Reverse Bias Test(HTRB) 高溫直流反向偏壓測試	$V_R(V_Z) = V_{R\text{Max.}}$, $T_a = T_j \pm 5^\circ\text{C}$ $R_L = 5\Omega$, 168+16/-10hrs	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
Alternating Current/Voltage Test (Switching Diode) 交流工作測試	$V_R = V_{R\text{Max.}}$, $f = 50\text{Hz}$, $R_L = 510\Omega$ 168+16/-10hrs, $T_a = 25 \pm 5^\circ\text{C}$	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
Continuous Operation Test (Zener Diode) 工作壽命測試	$P_{\text{tot}} = UI$ 168+16/-10hrs $R_L = 5\Omega$, $T_a = 25 \pm 5^\circ\text{C}$	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
Constant Temperature/Humidity Storage Test 恆溫恆濕儲存測試	$T_a = 85 \pm 5^\circ\text{C}$, $RH = 85 \pm 5\%$ 168+16/-10hrs	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
Temperature Cycling Test 溫度循環測試	$T_{\text{stg Min.}}$, 30+2/-0min ; 25±5°C, 10+2/-0min ; $T_{\text{stg Max.}}$, 30+2/-0min ; 25±5°C, 10+2/-0min; (10 Cycles)	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
Thermal Shock Test 熱循環測試	100±5°C, 3~4mins; 0±5°C, 3~4 mins (10 Cycles)	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
Solder Heat Resistance Test 耐焊接測試	Solder temperature: 260±5°C immersion time: 10+2/-0sec	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
High Pressure / High Humidity / High Temperature Test (PCT) 高壓 / 高濕 / 高溫測試	Vapor Pressure=1.05kg/cm ² RH=100%, $T_a = 121^\circ\text{C}$ 24+2/-0 hrs	Sample size : 40 pcs Ac/Re: 0/1	Once / Month
Axial Pull Test 軸向拉力測試	$I_F = 200\text{mA}$ and Pull strength $T_a = 25 \pm 5^\circ\text{C}$	Sample size : 10 pcs Ac/Re: 0/1	Once / Month
Snap Test 壓力測試	Tested by manometer	Sample size : 10 pcs Ac/Re: 0/1	Once / Month
Marking Permanence Test 唛圈固化測試	Put the products into the ultrasonic cleaning machine filled with ethanol 20sec	Sample size : 10 pcs Ac/Re: 0/1	Once / Month
Solderability Test 可焊性測試	245±5°C for 5±1sec(MELF) 245±3°C for 5±1sec(DIP) Sn100%	Sample size : 10 pcs Ac/Re: 0/1	Once / Month