

Reliability Report

Part Number: GPP SMD Series

Test Results : **PASS**

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	T _a = 25 °C	N/A	all parts	see below
Pre-conditioning	JESD22A-113 1.Temperature Cycling:-40 ~60 ,5Cycles; 2.Bake:125 ,24Hrs; 3.Moisture Soak:85±2 , 85±5%/168Hrs; 4.Reflow*3Cycles:260 ,3Cycles Time 5-60Min	1000 hours	308Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 T _j = T _{jmax} , 80% VR	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C (+0,-10)/15Min~ 150(+15,-0)/15Min, 1000Cycles	500hours	77Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C±2 °C, RH = 100 %, 15psig	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 T _a = 85 °C±2 °C , RH = 85%±5%, 80 % VR (VR MAX=100V)	1000 hours	77Pcs	0
IOL Intermittent Operating Life	MIL-STD-750 Method 1037 ON 2Min/OFF 2min, devices powered to insure ,ΔT _j = 100 °C for 15000 cycles	1000 hours	77Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 270 °C ± 5 °C, 7s (+2,-0)	10 s	30Pcs	0
SD Solderability	J-STD-002 235 °C ± 5 °C	3 s	10Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 T _{stgMax}	1000 hours	77Pcs	0