

Reliability Report

Part Number: Rectifier 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 °C ~ 60 °C, 2. Bake: 125 °C, 3. Moisture Soak: 85 °C, 85% RH; 4. Reflow* 3 Cycles: 260 °C	5 Cycles; 24 hours; 168 hours 3 Cycles	308 Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 T _j = T _{jmax} , 80% VR	1000 hours	77 Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C (+0, -10)/15 Min ~ 150 (+15, -0)/15 Min,	1000 Cycles (500 hours)	77 Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C ± 2 °C, RH = 100 %, 15 psig	96 hours	77 Pcs	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	77 Pcs	0
IOL Intermittent Operating Life	MIL-STD-750 Method 1037 ON 2 Min / OFF 2 min, devices powered to insure ΔT _j ≥ 100 °C	15000 cycles (1000 hours)	77 Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 260 °C (+5, -0)	10 s	30 Pcs	0
SD Solderability	J-STD-002 235 °C ± 5 °C	3 s	10 Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 T _{stgMax}	1000 hours	77 Pcs	0