

# Reliability Report

Part Number: ZENER SMD Series

Test Results : **PASS**

Test Item	Conditions	Duration	Quantity	Rejects
<b>TEST</b> Pre- and Post-Stress Electrical Test	T <sub>a</sub> = 25 °C	N/A	all parts	see below
* <b>Pre-conditioning</b>	JESD22A-113 1. Temperature Cycling: -40 °C ~ 60 °C , 2. Bake: 125 °C , 3.1 Moisture Soak: 85 °C , 85%RH for MSL1; or 3.2 Moisture Soak: 30 °C , 60%RH for MSL3; 4. Reflow*3Cycles: 260 °C	5Cycles; 24 hours; 168hours  192hours  3Cycles	308Pcs	0
<b>SSOP</b> Steady State Operational	MIL-STD-750 -1 Method 1038 condition B T <sub>j</sub> = T <sub>jmax</sub> T <sub>a</sub> = 25 ± 5 °C , PD = Max (I <sub>zm</sub> = PD/VZ)	1000 hours	77Pcs	0
<b>TC</b> Temperature Cycling	JESD22-A104 -55 °C (+0, -10)/15Min ~ 150(+15, -0)/15Min,	1000Cycles (500hours)	77Pcs	0
<b>AC</b> Autoclave	JESD22-A102 T <sub>a</sub> = 121 °C ± 2 °C , RH = 100 % , 15psig	96 hours	77Pcs	0
<b>H3TRB</b> High Humidity High Temperature Reverse Bias	JESD22-A101 T <sub>a</sub> = 85 °C ± 2 °C , RH = 85% ± 5% , 100 % VR (VR MAX = 100V)	1000 hours	77Pcs	0
<b>RSH</b> Resistance to Solder Heat	JESD22-B106 260 °C (+5 , -0)	10 s	30Pcs	0
<b>SD</b> Solderability	J-STD-002 235 °C ± 5 °C	3 s	10Pcs	0
<b>HTSL</b> High Temperature Storage Life	JESD22-A103 T <sub>stg</sub> Max	1000 hours	77Pcs	0

\*Remark : detail MSL of product refer to data sheet on MCC website.