



Micro Commercial Components

Reliability Report

Part Number: ZENER Axial Series

Yearly Reliability monitoring:2023
Based on similar Structural

Test Results : **PASS**

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	$T_a = 25\text{ }^\circ\text{C}$	N/A	all parts	see below
T.S Terminal Strength	MIL-STD-750 Method 2036 $W=1\text{Kg}$	15 s	22Pcs	0
B.S Bending Strength	MIL-STD-750 Method 2036 $W=0.5\text{Kg}, 90\pm 5^\circ$	3Times	22Pcs	0
SSOP Steady State Operational	MIL-STD-750 -1 Method 1038 condition B $T_j = T_{jmax}$ $T_a=25\pm 5\text{ }^\circ\text{C}$, $PD=\text{Max}$ ($I_{zm} = PD/VZ$)	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 $-55\text{ }^\circ\text{C} (+0,-10)/15\text{Min}\sim$ $150(+15,-0)/15\text{Min}$,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 $T_a = 121\text{ }^\circ\text{C}\pm 2\text{ }^\circ\text{C}$, $\text{RH} = 100\%$, 15psig	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 $T_a = 85\text{ }^\circ\text{C}\pm 2\text{ }^\circ\text{C}$, $\text{RH} = 85\%\pm 5\%$, 100 % VR (VR MAX=100V)	1000 hours	77Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 $260\text{ }^\circ\text{C}$ (+5, -0)	10 s	30Pcs	0
SD Solderability	J-STD-002 $235\text{ }^\circ\text{C}\pm 5\text{ }^\circ\text{C}$	3 s	10Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 T_{stgMax}	1000 hours	77Pcs	0