



Micro Commercial Components

# Reliability Report

Part Number: TVS THT Series

Yearly Reliability monitoring:2023  
Based on similar Structural

## Test Results : PASS

Test Item	Conditions	Duration	Quantity	Rejects
<b>TEST</b> Pre- and Post-Stress Electrical Test	$T_a = 25\text{ }^\circ\text{C}$	N/A	all parts	see below
<b>HTRB</b> High Temperature Reverse Bias	MIL-STD-750 Method 1038 $T_j = T_{jmax}, 100\% \text{ VR}$	1000 hours	77Pcs	0
<b>TC</b> 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
<b>AC</b> Autoclave	JESD22-A102 $T_a = 121\text{ }^\circ\text{C} \pm 2\text{ }^\circ\text{C}, \text{ RH} = 100\% ,$ 15psig	96 hours	77Pcs	0
<b>H3TRB</b> 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
<b>RSH</b> Resistance to Solder Heat	JESD22-B106 $260\text{ }^\circ\text{C} (+5 , -0)$	10 s	30Pcs	0
<b>T.S</b> Terminal Strength	MIL-STD-750 Method 2036 W=3Kg	15 s	22Pcs	0
<b>B.S</b> Bending Strength	MIL-STD-750 Method 2036 W=2Kg,90 $\pm$ 5 $^\circ$	3Times	22Pcs	0
<b>SD</b> Solderability	J-STD-002 $235\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$	3 s	10Pcs	0
<b>HTSL</b> High Temperature Storage Life	JESD22-A103 TstgMax	1000 hours	77Pcs	0