

# Reliability Test Result

Product	Switching Diode	Package	Surface mount molded package
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Life Test				
TEST ITEM	TEST CONDITION	STANDARD	n[pcs] (Sample QTY.)	Pn[pcs] (NG QTY.)
High temperature reverse bias	Tjmax, VR=VR Max, 1000h	JESD22-A108	77	0
High humidity, High temp. reverse bias	85±2°C, Rh=85±5%, VR = VR MAX, 1000h	JESD22-A101	77	0
Temperature cycle	-55±5°C(30min.)↔150±5°C(30min.), 200cyc	JESD22-A104	77	0
Pressure cooker test (Autoclave)	Ta=121±2°C, Rh=100%, 203kPa, 100h	JESD22-A102	77	0
Intermittent Operation Life or Power and Temperature Cycle	Ta=25±5°C, ΔTj≥100°C, Duration: 15000cycles Ta= -40(+0/-10)°C~+85(+10/-0)°C, ON 300s/OFF 300s per cycle Duration: 6000cycles	MIL-STD-750 Method 1037  JESD22 A-105	77	0

Stress Test				
TEST ITEM	TEST CONDITION	STANDARD	n[pcs] (Sample QTY.)	Pn[pcs] (NG QTY.)
Solder heat resistance 1	260±5°C, 10sec., Solder - bath	JESD22-B106D	30	0
Solder heat resistance 2	350±10°C, 3s., Dipping leads into solder bath at 350±10°C.	JESD22-B106D	30	0
Solderability	245±5°C, 3s., Solder-Bath	JESD22-B102	10	0
Terminal strength (Push)	Push force on mounted PCB ; 5N, 10s	JEITA ED-4702B	10	0
Terminal strength (PCB Bending)	Mounted PCB bending depth ; 1.0mm/s, 3mm, 5 s	JEITA ED-4702B	10	0

Measurement Item & Criteria			
Item	Condition	Criteria	
Forward Voltage ( V F )	Par specification	Less than x1.1 of Initial value	
Reverse Current ( I R )	Par specification	Less than x2 of Initial value	
Appearance	Visual check	No outstanding change in physical	
Solderability	Visual check	Reflow	Non-wetting unseen
		Solder Bath	

JUDGEMENT
No failure is observed from each test item.

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