

# Reliability Test Result

Product MOSFET Package SOT-323FL(UMT3F)
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1. TEST RESULT			T	-	
TEST ITEM	TEST CO	TEST CONDITION		n[pcs] (Sample QTY.)	Pn[pcs] (NG QTY.)
	260±5°C , 30sec. , Reflow method 3times		JESD22~A111	22	0
Soldering heat resistance	260±5°C,10sec.,Solder−bath			22	0
	350±10°C , 3sec. , Hand soldering			22	0
Caldanakiliku	245±5°C ,3sec. , Reflow method		J-STD-002	22	0
Solderability	245±5°C , 3sec. , Solder−bath		JESD22-B102	22	0
Temperature cycle	-55±5°C←→150±5°C 200cycles		JESD22-A104	22	0
High temp. high humidity reverse bias	85±2°C, 85±5%RH, specified bias ,1000hours		JESD22-A101	22	0
Pressure cooker test	121±2°C , 100%RH , 203kPa , 100hours		JESD22-A102	22	0
High temperature reverse bias	n temperature reverse bias Tj max., specified bias , 1000hours		JESD22-A108	22	0
High temperature gate bias	Tj max, VGSS(max), , 1000hours		JESD22-A108	22	0
Intermittent Operation Life or Power and Temperature Cycle	Ta=25±5°C、 ∠Tj≥100°C、 ON 120s/OFF 120s per cycle 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	22	0
Lead strength (lead pull)	Sample body fixed, pulling lead axis direction , 1.0N , 10±1sec.		JEITA ED-4701/400 Test Method 401	22	0
2. MEASUREMENT ITEM & CRITE					
ITEM  Gate-Source Leakage : IGSS	CONDITION  Per specification	CRITERIA  According to the electrical characteristics specified by the specification			
Zero Gate Voltage Drain Current : IDSS	Per specification				
Forward Transfer Admittance :  Yfs	Per specification				
Physical	Visual check	No outstanding change in physical.			
Solderability	Visual check	Reflow Soldering	Immersed surfase, other than the end of pin as cut-surface, must be covered by solder.		
		Solder-bath	More than 95% of the electrode must be covered with solder.		

### 3. JUDGEMENT

No failure is observed from each test item.

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