

Reliability Test Result

Product Bipolar Transistor Package SOT-323FL(UMT3F)

1. TEST RESULT					
TEST ITEM			STANDARD	n[pcs]	Pn[pcs]
	260±5°C , 30sec. , Reflow meth	260±5°C , 30sec. , Reflow method 3times		(Sample QTY.)	(NG QTY.)
Soldering heat resistance	260±5°C , 10sec. , Solder−bath	260±5°C , 10sec. , Solder─bath		22	0
	350±10°C , 3sec. , Hand solder	350±10°C , 3sec. , Hand soldering		22	0
Caldanahiliba	245±5°C ,3sec. , Reflow method	245±5°C ,3sec. , Reflow method		22	0
Solderability	245±5°C , 3sec. , Solder-bath	245±5℃ , 3sec. , Solder-bath		22	0
Temperature cycle	-55±5°C←→150±5°C 200cy	-55±5°C ←→150±5°C 200cycles		22	0
High temp. high humidity reverse	e bias 85±2°C, 85±5%RH, specified	85±2°C, 85±5%RH, specified bias ,1000hours		22	0
Pressure cooker test	121±2°C , 100%RH , 203kPa ,	121±2°C , 100%RH , 203kPa , 100hours		22	0
High temperature reverse bias	Tj max., specified bias , 1000ho	Tj max., specified bias , 1000hours		22	0
High temperature gate bias	Tj max, VGSS(max), , 1000hours	Tj max, VGSS(max), , 1000hours		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, ON 300s/OFF 300s per cycle	ON 120s/OFF 120s per cycle Duration: 15000cycles $Ta = -40(+0/-10)^{\circ}C \sim +85(+10/-0)^{\circ}C,$		22	0
	Duration: 6000cycles			JESD22 A-105	
Lead strength (lead pull)	Sample body fixed, pulling lead a	Sample body fixed, pulling lead axis direction , 1.0N , 10±1sec.		22	0
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2. MEASUREMENT ITEM & C	RITERIA	T			
ITEM	CONDITION	CRITERIA			
Cutoff current : ICBO	Per specification				
Cutoff current : IEBO	Per specification	According to the electrical characteristics specified by the spe		specification	
DC current gain : hFE	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.		
2 IUDOEMENT					

3. JUDGEMENT

No failure is observed from each test item.

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