

Reliability Test Result

Product MOSFET Package SOT-416FL(EMT3F)

1. TEST RESULT TEST ITEM	TEST CO				
	TEST CONDITION		STANDARD	n[pcs]	Pn[pcs]
Soldering heat resistance	260±5°C , 30sec. , Reflow method 3times		JESD22-A111	(Sample QTY.)	(NG QTY.)
	260±5°C,10sec.,Solder─bath			22	0
	350±10°C , 3sec. , Hand soldering			22	0
Solderability	245±5°C ,3sec. , Reflow method		J-STD-002	22	0
	245±5°C , 3sec. , Solder−bath		JESD22-B102	22	0
Temperature cycle	-55±5°C←→150±5°C 200eyc	cles	JESD22-A104	22	0
High temp. high humidity reverse bia:	85±2°C, 85±5%RH, specified bias ,1000hours		JESD22-A101	22	0
Pressure cooker test	er test 121±2°C , 100%RH , 203kPa , 100hours		JESD22-A102	22	0
High temperature reverse bias	e bias Tj max., specified bias , 1000hours		JESD22-A108	22	0
High temperature gate bias	Tj max, VGSS(max), , 1000hours		JESD22-A108	22	0
Ta= $25\pm5^{\circ}$ C. \triangle Tj \ge 100 $^{\circ}$ C. ON 120s/OFF 120s per cycle Duration: 15000cycles wer and Temperature Cycle Ta= $-40(+0/-10)^{\circ}$ C \sim +85(+10/-0) $^{\circ}$ C. ON 300s/OFF 300s per cycle		MIL-STD-750 Method 1037	22	0	
	Duration: 6000cycles		JESD22 A-105		
Lead strength (lead pull)	Sample body fixed, pulling lead axis direction , 1.0N , 10 ± 1 sec.		JEITA ED-4701/400 Test Method 401	22	0
2. MEASUREMENT ITEM & CRITE					
ITEM	CONDITION	ONDITION CRITERIA			
Gate-Source Leakage : IGSS	Per specification	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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