

Changing Point of 4M

Changing Point of 4M		Before change	After change	Remarks		
MAN		Local staff at Tianjin factory (ROHM)	Local staff at Thailand factory (Lite-On)	Educated and trained staff		
Method		No change		-		
Machine		Tianjin factory (ROHM)	Thailand factory (Lite-On)	-		
Main Materials 		①Die		No change	-	
		②Ag paste		No change in main component material		-
		③Au wire		No change in main component material		-
		④ Resin		No change in main component material No shape change		-
		⑤Frame		No change in main component material No shape change		-
		⑤plating		Solder plating (Sn-Ag-Cu)	Sn plating	The lead terminal will be changed from shiny to nonshiny.

Infrared LED

1.試験結果(TEST RESULT)

試験項目 (TEST ITEM)	参考規格 (Reference STD)	試験条件 (TEST CONDITION)	n [PCS] (Sample QTY.)	P n (NG QTY.)
はんだ耐熱 Solder heat resistance	JESD22-B106D	260±5℃のはんだ槽に端子根元1.6mm まで10±1sec 1回浸漬。 Dip 1times with 10±1sec up to 1.6mm of the bottom plane of resin in eutectic solder tub of 260±5℃.	22	0
温度サイクル Temperature cycle	JESD22-A104E	Tstg MIN (30min) ~ Tstg MAX (30min) 100cycle	22	0
高温放置 High temperature storage	JESD22-A103E	Ta = Tstg MAX 1000hrs	22	0
高温高温放置 High temperature High humidity	JEITA ED-4701 B-121	Ta = 85℃ 85%RH 240hrs	22	0
低温放置 Low temperature storage	JESD22-A119A	Ta = Tstg MIN 1000hrs	22	0
動作寿命 Load life	JESD22-A108D	If = 20mA Ta = 25℃ 1000hrs	22	0

※SIR-34 series

PTR Sensor

1.試験結果(TEST RESULT)

試験項目 (TEST ITEM)	参考規格 (Reference STD)	試験条件 (TEST CONDITION)	n [PCS] (Sample QTY.)	P n (NG QTY.)
はんだ耐熱 Solder heat resistance	JESD22-B106D	260±5℃のはんだ槽に端子根元1.6mmまで 10±1sec 1回浸漬。 Dip 1times with 10±1sec up to 1.6mm of the bottom plane of resin in eutectic solder tub of 260±5℃.	22	0
端子折り曲げ強度 Load bend test	JESD22-B105D	荷重 0.98N 0°~90°~0°~ -90°~0° Load 0.98N 0°~90°~0°~ -90°~0°	22	0
温度サイクル Temperature cycle	JESD22-A104E	Tstg MIN (30min) ~ Tstg MAX (30min) 20cycle	22	0
高温放置 High temperature storage	JESD22-A103E	Ta = Tstg MAX 1000hrs	22	0
高温高温放置 High temperature High humidity	JEITA ED-4701 B-121	Ta = 85℃ 85%RH 240hrs	22	0
低温放置 Low temperature storage	JESD22-A119A	Ta = Tstg MIN 1000hrs	22	0
動作寿命 Load life	JESD22-A108D	V _{CE} = 5V Ta = 25℃ 1000hrs	22	0

※RPT-34series

2.測定項目及び故障判定基準(FAILURE CRITERIA)

測定項目 (ITEM)	測定条件 (CONDITION)	故障判定規準 (CRITERIA)
光出力 Optical output	I _F = 50mA	初期値 0.7 Initial value × 0.7
順方向電圧 Forward voltage	I _F = 50mA	U.S.L × 1.2
逆方向電流 Reverse current	V _R = 3V	U.S.L × 2
外観 appearance	目視 Visual check	初期と比較して外観に異常無きこと No outstanding change in appearance
端子折り曲げ Lead bend	目視 Visual check	リード断線が無きこと。 There shall not be lead rupture.

2.測定項目及び故障判定基準(FAILURE CRITERIA)

測定項目 (ITEM)	測定条件 (CONDITION)	故障判定規準 (CRITERIA)
光電流 Light current	V _{CE} = 5V E=500Lux	初期値 0.7 Initial value × 0.7
暗電流 Dark current	V _{CE} = 10V (暗箱) (dark box)	U.S.L × 2
外観 appearance	目視 Visual check	初期と比較して外観に異常無きこと No outstanding change in appearance
端子折り曲げ Lead bend	目視 Visual check	リード断線が無きこと。 There shall not be lead rupture.