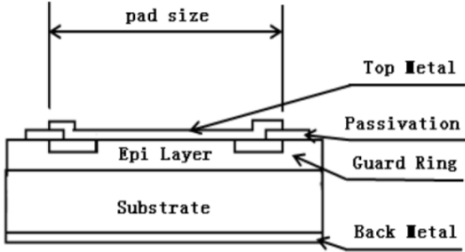
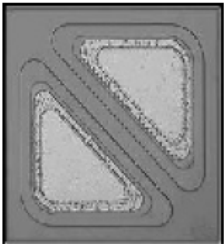
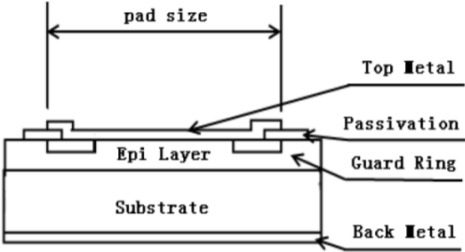
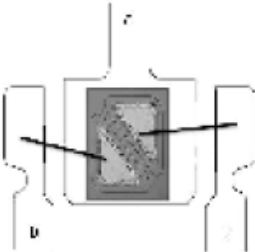
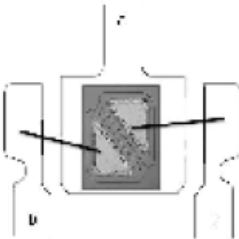
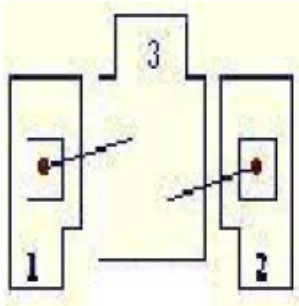
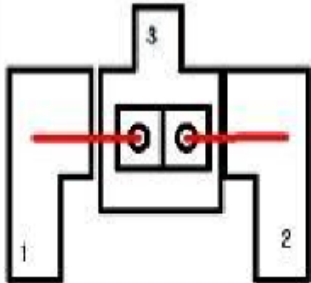


BAW56/BAV70 change dic size
comparison report

Prepared by Lijing
Approved by Mengran
Issue date at 2016.3.29
Reversion for A

Comparison report

Photo compared:

	Old	New	Result
DIE	  Slian 0.37*0.37mm*1PCS	  Silan 0.23*0.23mm*2PCS	Dic size change small
Structure	BAW56 共阳极  BAV70 共阴极 	BAW56  BAV70 	Inner structure change

Comparison report

Product Type	Die size	die shear test (g) ≥120g										min	max	avg	Result
BAW56	Silan 0.37x0.37mm	570	560	520	460	510	490	480	460	510	450	410	580	504	No change
		410	490	560	570	470	520	570	420	580	480				
	Silan 0.23x0.23mm	510	430	410	490	380	370	410	420	360	430	360	510	429	
		420	450	390	460	450	480	460	420	450	390				

Dianeter	Product Type	Die size	Terminal strength test (g) >3g										min	max	avg	Result
0.68mil	BAW56	Silan 0.37x0.37mm	4.6	4.1	4.3	4.2	4.6	4.0	4.3	4.9	5.3	4.8	4.0	5.3	4.6	No change
			4.6	4.2	5.1	4.7	4.6	4.5	5.0	4.8	4.5	4.6				
		Silan 0.23x0.23mm	4.5	4.1	4.3	4.7	4.2	4.5	4.8	4.2	4.3	4.4	4.0	5.2	4.5	
			4.7	5.2	4.8	4.0	4.3	4.1	4.4	4.6	4.8	4.2				

Product Type	Die size	die shear test (g) ≥120g										min	max	avg	Result
BAV70	Silan 0.37x0.37mm	520	410	510	480	480	470	450	540	360	530	360	630	489	No change
		410	630	360	470	570	500	540	530	490	520				
	Silan 0.23x0.23mm	570	490	610	600	390	350	370	620	330	540	290	620	451	
		470	360	320	290	620	540	410	380	350	410				

Dianeter	Product Type	Die size	Terminal strength test (g) >3g										min	max	avg	Result
0.68mil	BAV70	Silan	4.3	4.0	4.1	4.3	4.4	4.7	5.0	4.5	5.0	4.6	4.0	5.6	4.5	No change
		0.37x0.37mm	5.6	4.9	4.2	4.9	5.0	4.2	4.1	4.6	4.3	4.1				
		Silan	4.7	3.5	4.2	5.0	3.6	4.1	4.9	4.6	5.3	3.4	3.4	5.3	4.4	
		0.23x0.23mm	4.4	4.6	3.9	4.1	4.5	4.2	4.9	5.1	4.3	4.1				

Comparison report

BAW56	Test Item	VBR N(V)	VF1 R(mV)	VF2 R(V)	IR1 R(uA)	VBR N(V)	VF1 R(mV)	VF2 R(V)	IR1 R(uA)
	Test Condition	IBR(mA)=0.1 T(mS)=16	IF1(mA)=50 T(mS)=0	IF2(mA)=150 T(mS)=0	VR1(V)=70 (mS)=0	IBR(mA)=0.1 T(mS)=16	IF1(mA)=50 T(mS)=0	IF2(mA)=150 T(mS)=0	VR1(V)=70 (mS)=0
	Test Spec	VBR(V)>70	VF1L(mV)=0 VF1H(mV)=1000	VF2L(V)=0 VF 2H(V)=1.25	IR1(uA)<2.5	VBR(V)>70	VF1L(mV)=0 VF1H(mV)=1000	VF2L(V)=0 VF	IR1(uA)<2.5
Before	Min	90.000	835.500	0.957	0.006	90.000	836.500	0.959	0.006
	Max	90.200	844.200	0.978	0.009	90.200	846.900	0.999	0.009
	Avg	90.020	840.240	0.969	0.008	90.050	840.520	0.972	0.008
After	Min	90.000	883.200	1.022	0.004	90.000	882.900	1.022	0.005
	Max	90.200	889.300	1.032	0.009	90.200	889.600	1.033	0.008
	Avg	90.040	886.264	1.027	0.006	90.020	886.522	1.027	0.007
Result		No change							

BAV70	Test Item	VBR N(V)	VF 1(mV)	VF 2(V)	IR1 N(uA)	VBR N(V)	VF 1(mV)	VF 2(V)	IR1 N(uA)
	Test Condition	IBR(mA)=0.1 T(mS)=16	IF1(mA)=50 T(mS)=0	IF2(mA)=150 T(mS)=0	VR1(V)=70 (mS)=0	IBR(mA)=0.1 T(mS)=16	IF1(mA)=50 T(mS)=0	IF2(mA)=150 T(mS)=0	VR1(V)=70 (mS)=0
	Test Spec	VBR(V)>70	VF1L(mV)=0 VF1H(mV)=1000	VF2L(V)=0 VF 2H(V)=1.25	IR1(uA)<2.5	VBR(V)>70	VF1L(mV)=0 VF1H(mV)=1000	VF2L(V)=0 VF2H(V)=1.25	IR1(uA)<2.5
Before	Min	85.000	821.300	0.945	0.040	85.000	820.800	0.944	0.030
	Max	85.300	829.100	0.955	0.044	85.200	829.300	0.955	0.035
	Avg	85.015	825.425	0.950	0.043	85.010	825.000	0.949	0.033
After	Min	85.000	881.300	1.018	0.010	85.000	881.600	1.018	0.012
	Max	85.300	885.800	1.037	0.019	87.000	895.000	1.057	0.018
	Avg	85.042	882.558	1.022	0.014	85.556	883.752	1.024	0.015
Result		No change							