



UNISONIC TECHNOLOGIES CO., LTD

產品變更通知 PRODUCT CHANGE NOTIFICATION

PCN No.	PCN-231104	Issue Date	Nov -10-2023
TITLE	2N6027 芯片優化變更 (2N6027 Chip optimization change)		Page 1 of 3

變更主旨(TITLE):

2N6027 芯片優化，取消輻照製程，穩定Vt/Vv數值，避免高溫導致電性偏移。

2N6027 Chip optimization, Cancel the irradiation process, stabilize the Vt/Vv value, and avoid electrical deviation caused by high temperature.

變更類別(CHANGE TYPE):

- Design Process Raw Material Manufacturing Site
 Testing Packing/Shipping/Labeling Other _____

變更說明(DESCRIPTION OF CHANGE):

此項變更不影響封裝尺寸

This change does not affect L/F size.

	變更前(Original)	變更後 (Update)
P/N	2N6027	2N6027
Wafer Name	6FUS007Fx	6US007Fx

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電性變更前/後比對 (Original / Update comparison of electrical changes): Change

取消輻照製程，穩定Vt/Vv數值，避免高溫導致電性偏移。

Cancel the irradiation process, stabilize the Vt/Vv value, and avoid electrical deviation caused by high temperature.

		Name	Bin#	IGAO	IGKS	VF	VO_H	VO_PP	Vv_200K_L TO H	Vv_200K_H TO L	Vv_200K_VT	Vv_200K_K	Iv_200K	Iv_200K_OFF
		Unit	N	nA	nA	V	V	V	V	V	V	V	uA	uA
		Max	16	9	48	1.48	N	N	11.5	4.5	0.6	0.5	50	1
P/N	芯片 Wafer Name	Min	1	-9	-48	0.5	6.1	6.1	10.1	1.4	0.21	0.25	1	-1
2N6027	6US007Fx3 變更後 (Update)	Average		7.260	3.866	1.027	8.576	8.661	10.350	1.521	0.298	0.387	4.465	0.119
		MAX		8.999	6.075	1.052	8.755	8.840	10.700	2.300	0.599	0.398	8.287	0.326
		MIN		-0.105	-0.102	1.021	8.354	8.519	10.300	1.400	0.243	0.382	1.011	-0.098
		STDEV		1.875	0.926	0.002	0.051	0.051	0.006	0.060	0.024	0.001	0.314	0.055
2N6027	6FUS007Fx1 變更前 (Original)	Average		7.352	6.366	1.054	8.404	8.357	10.417	3.052	0.426	0.381	18.3	0.095
		MAX		8.999	39.733	1.095	8.644	8.568	10.75	3.8	0.6	0.5	18.856	0.309
		MIN		-7.791	-43.521	1.042	8.164	8.007	10.15	1.4	0.286	0.25	10.763	-0.13
		STDEV		0.933	1.315	0.003	0.044	0.056	0.025	0.064	0.073	0.047	0.619	0.064
2N6027	6FUS007Fx1 變更前 (Original)	Average		6.177	5.702	1.057	8.386	8.345	10.579	3.61	0.477	0.387	13.856	0.126
		MAX		8.999	10.855	1.105	8.564	8.568	10.7	4.4	0.6	0.5	17.521	0.282
		MIN		0.21	-1.245	1.047	7.924	8.007	10.3	2.9	0.286	0.251	10.389	-0.033
		STDEV		1.529	2.022	0.002	0.04	0.054	0.042	0.081	0.035	0.038	0.407	0.046

		Name	Bin#	VT_1MOHM	VT_10KOHM	IP_1MOHM	IP_10KOHM	Vv_1MOHM	Iv_1MOHM	Iv_1MOHM_OF F
		Unit	N	V	V	uA	uA	V	uA	uA
		Max	16	0.6	0.598	1	2	0.8	90	1
P/N	芯片 Wafer Name	Min	1	0.28	0.22	-0.001	-0.005	0.6	1	-1
2N6027	6US007Fx3 變更後 (Update)	Average		0.392	0.458	0.014	0.083	0.654	13.230	0.119
		MAX		0.586	0.526	0.470	0.774	0.670	30.000	0.587
		MIN		0.286	0.406	0.000	0.013	0.630	1.000	-0.294
		STDEV		0.012	0.010	0.009	0.030	0.005	4.209	0.112
2N6027	6FUS007Fx1 變更前(Original)	Average		0.445	0.502	0.043	0.389	0.73	55.647	0.122
		MAX		0.562	0.522	0.315	1.374	0.74	90	0.456
		MIN		0.342	0.421	0	0	0.68	7	-0.195
		STDEV		0.01	0.004	0.029	0.087	0.002	8.317	0.107
2N6027	6FUS007Fx1 變更前(Original)	Average		0.5	0.519	0.161	0.368	0.73	51.855	0.152
		MAX		0.582	0.523	0.495	0.418	0.74	90	0.423
		MIN		0.341	0.461	0.001	0.049	0.71	31	-0.065
		STDEV		0.014	0.006	0.055	0.062	0.001	5.449	0.089

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品質驗證(VERIFICATION/QUALIFICATION):

本項變更不影響原有品質可靠性。

No change to quality and reliability in the final product

生效日期(COMPLETE DATE):

Feb -12-2024

影響範圍(AFFECTED PRODUCTS):

2N6027 系列 (2N6027 Series)

以 6US007Fx 芯片,請客戶索取樣品進行驗證

The 6US007Fx chip will be the main production. Please request samples for verification.

客戶回簽(CUSTOMER RESPONSE):

請使用以下的確認通知回覆或以電子郵件同意認可或告知需要補充的資訊。如UTC於30日以內未收到確認通知，我們將視同 貴司同意此變更。

Please use the acknowledgement below or E-Mail to grant approval or request additional information. If UTC does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.

Approved Rejected Other_____

Customer Signature: _____

友順對此變更所引起之不便表達致歉，如果對本變更有任何問題，請與我們的業務代表或經銷商聯絡。

We apologize for any inconvenience causing from this change, If you have any questions concerning this change, please contact your local sales or UTC's sales representative.