

NEW PACKAGE – SMPC4.6U PASSED BOARD LEVEL RELIABILITY REQUEST FOR AUTOMOTIVE APPLICATION

Taiwan Semiconductor (TSC), a global supplier of discrete power electronics devices, LED drivers, analog ICs and ESD protection devices, announces the package – SMPC4.6U passed Board Level Reliability (BLR) testing for automotive applications.



SMPC4.6U

BLR verification is important in automotive application to prove the device with high robustness and reliability. To pass BLR testing can make SMPC4.6U to be trusted for automotive component and when working in safety applications, engine control unit and so on...

SMPC4.6U is manufactured with high grade material to eliminate the moisture and increase the reliability. It's also changed the lead shape to wettable flank that can prevent poor soldering if copper exposed. The thermal resistance is reduced by a exposed heat sink to translate the heat into PCB. The device size is 64% smaller than SMC package that is no thermal behavior, therefore the power density is improved also.

We –TSC implement different wafer technology and different products into SMPC4.6U package.

Below list just shows some products as released recently.

TECHNOLOGY	PART NUMBER	V_{RRM} (V)	I_F (A)	V_F (V)	I_R (μ A)	T_{rr} (ns)	T_J ($^{\circ}$ C)
STD GPP	TUAS3xH	200~1000	3	1.1	5	-	150
STD GPP	TUAS4xH	200~1000	4	1.1	5	-	150
STD GPP	TUAS6xH	200~1000	6	1.1	5	-	150
STD GPP	TUAS8xH	200~1000	8	1.1	5	-	150
FR GPP	TUAR4xH	200~1000	4	1.4	5	150	150
HER GPP	TUAU4xH	200~1000	4	0.9~1.9	5	50	150/175
HER GPP	TUAU6xH	200~1000	6	1~1.7	5	50	150/175
HER GPP	TUAU8xH	200~1000	8	1~1.7	5	50	150/175
HER GPP	TUAU10xH	200~1000	10	1~1.7	5	50	175
UF Planar	PUUP3xH	100~200	3	0.93	2	25	175
UF Planar	PUUP4xH	100~200	4	0.93	2	25	175
UF Planar	PUUP6xH	100~200	6	0.94	2	25	175

Note: x = B: 100V, x = D: 200V, x = G: 400V, x = J: 600V, x = K: 80V, x = M: 1000V

See related content: [Wettable flank packages of PDFN56U and SMPC4.6U enable AOI choice](#)

For more information or other products, please visit TSC website - <https://www.taiwansemi.com/>