

Product Change Notification

TBU® HIGH-SPEED PROTECTORS

Bourns Manufacturers Representatives
Corporate Distributor Product Managers
Americas Sales Team
Asia Sales Team
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FAE Team



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TBU® High-Speed Protector Model P40-G240-WH

The company that manufactured the current version of the [P40-G240-WH](#) die experienced financial difficulties and shut down its silicon processing operations. Bourns has just completed the qualification of this device at the fab location in Korea which manufactures all other active Bourns® TBU® products.

Qualification:

Qualification Information & Results are shown below using the new die processed at the Korea fab location.

Qualification Information:

All Products	
Die Technology	TBU® Technology
Product Name	P40-G240-WH
Die Name	C4
Top Metal	AlSiCu
Back Metal	VNiAg
Assembly Site	China
Pins/Package	DFN 4x4
Mold Compound	Sumitomo G770 HCD
Die Attach	Ablestik: 84-1LMISR4
Bond Wire	Multiple 1.3 Mil Cu
L/F Material	Copper
Marking	Laser
Termination Finish	Matte Sn (Pb Free)

Qualification Results:

Stress Test/Conditions	Standard	Method	SS/Accept	P40-G240-WH		
				Lot 1 FOAA	Lot 2 FUAA	Lot 3 FUAB
BOL, 85 °C, 85 % RH, Tj = 125 °C, 1000 h	GR-357-CORE	-	77/1	77/0	77/0	77/0
HAST, 130 °C, 85 % RH, 96 h Unbiased (Note 1)	GR-357-CORE	-	77/1	77/0	77/0	77/0
Temperature Cycle, -40/+85 °C, 500 cs (Note 1)	MIL STD 883	1010	38/1	38/0	38/0	38/0
Wire Bond Strength (>4 g)	MIL STD 883	2011	10/0	10/0		
Ball Shear Strength (>30 g)	MIL STD 883	2019	10/0	10/0		
Solderability, 8 h Steam Age, 245 °C, SnAgCu	JESD22	B102D (1)	22/0	22/0	22/0	22/0
ESD, HBM, Classification	JESD22	A114E	3/0	3/0	3/0	3/0

Note 1:

Preconditioned according to JESD22 A113 Level 1 at 260 °C peak reflow temperature prior to Qualification Reliability Testing.

Product Labeling:

The product marking is unchanged and the labels will show the country of origin code.

Identification of the Changed Product:

Bourns maintains traceability back to source wafer lots and assembly sites for all TBU® products.

First Date Code from New Site: 1210

Impact on Form, Fit, Function and Reliability:

Product ratings and electrical characteristics are unaffected by the change. There is no impact on form, fit, function or reliability.

Last Date of Manufacture of Existing Product:

The former silicon processing site no longer manufactures this process; TBU® products made at the former processing site are available in limited quantities.

Samples:

Evaluation samples are available from March 2012 onward.

Implementation Date:

Deliveries of such products to customers may occur from June 2012 onward. Product is available to ship earlier than above date, if requested.

If you have any questions, please contact our [customer service](#) teams in your region.