



# Product Change Notification



Product Group: Vishay Siliconix/ April 29, 2013/PCN-SIL-0272013 Rev 0

## Vishay Xi'an TO220 Green Mold Compound Qualification for HVM Products Above 600V

**DESCRIPTION OF CHANGE:** Vishay Siliconix announces the qualification of green mold compound SG-8200DTV for commercial High Voltage MOSFET products manufactured in TO220 package at Vishay's factory in Xi'an, China that have BVDSS specified above 600V.

**CLASSIFICATION OF CHANGE:** Change in direct material

**REASON FOR CHANGE:** Alternative direct material for HVM TO220 products; manufacturing flexibility.

**EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:** There will be no effect on quality, reliability, or electrical performance. There will be no changes to data sheets specifications.

**PRODUCT CATEGORY:** Commercial High Voltage Power MOSFETs

**PART NUMBERS/SERIES/FAMILIES AFFECTED:** See page 2 of this PCN.

*Additional High Voltage MOSFET part numbers released to production at Xi'an in TO220 packages after the effective date of this PCN will be covered by this announcement.*

**VISHAY BRAND(s):** Vishay Siliconix

**TIME SCHEDULE:** Shipments from Vishay Xi'an will start in August, 2013.

**SAMPLE AVAILABILITY:** Samples will be available in Q2, 2013. Please contact your regional Vishay Sales office to place sample orders.

**PRODUCT IDENTIFICATION:** TO220 products manufactured in Vishay Xi'an will have part marking in the form of Y35z ab where the Y is the factory designator for Vishay Xi'an.

**QUALIFICATION DATA:** Qualification data is provided on page 3 below.

**This PCN is considered approved, without further notification, unless we receive specific customer concerns before July 28, 2013 or as specified by contract.**

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ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT

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## Part Number List HVM TO220

Part Number	Package	Voltage
IRFB9N65A	TO220	650
IRFB9N65APBF	TO220	650
IRFBE20	TO220	800
IRFBE20PBF	TO220	800
IRFBE30	TO220	800
IRFBE30PBF	TO220	800
IRFBF20	TO220	900
IRFBF20PBF	TO220	900
IRFBF30PBF	TO220	900
IRFBG20	TO220	1000
IRFBG20PBF	TO220	1000
IRFBG30	TO220	1000
IRFBG30PBF	TO220	1000

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## Qualification Results

### Detailed Reliability Test Results

EVAL	STRESS	STEP	TEST CONDITION	HR-CYC	S	S	FAIL	DONE	TEST TYPE	FAIL CODE
*****	*****	****	*****	*****	****	****	****	****	****	****
12B0128	HAST	0	+130°C, 85%RH	0	80	0	X	ET		
		1	+130°C, 85%RH	100	80	0	X	ET		
	HTGB	1	HTGB (150 C)	168	80	0	X	ET		
		2	HTGB (150 C)	500	80	0	X	ET		
		3	HTGB (150 C)	1000	80	0	X	ET		
	HTRB	1	HTRB (150 C)	168	80	0	X	ET		
		2	HTRB (150 C)	500	80	0	X	ET		
		3	HTRB (150 C)	1000	80	0	X	ET		
	PRESSURE P	0	+121°C, 15 PSIG	0	80	0	X	ET		
		1	+121°C, 15 PSIG	96	80	0	X	ET		
	SOLDER DUN	1	SOLDER DUNK	3	50	0	X	ET		
	POWER CYCL	1	POWER CYCLE	4286	80	0	X	ET		
		2	POWER CYCLE	8572	80	0	X	ET		
	TEMP CYCLE	1	-65°C to +150°C	250	80	0	X	ET		
		2	-65°C to +150°C	500	80	0	X	ET		
		3	-65°C to +150°C	1000	80	0	X	ET		

PART NUMBER: SIHF30-GE3

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