

INFORMATION NOTE



N° 019/13

Improved ESD-protection for 62mm modules

Subject of Change:

In order to improve the current ESD-protection, an additional and enlarged ESD-protection scheme will be implemented in the 62mm IGBT module packaging. The change is shown in the attached pictures.

Products affected:

All 62mm modules (see table from page 2 onwards)

Reason of Change:

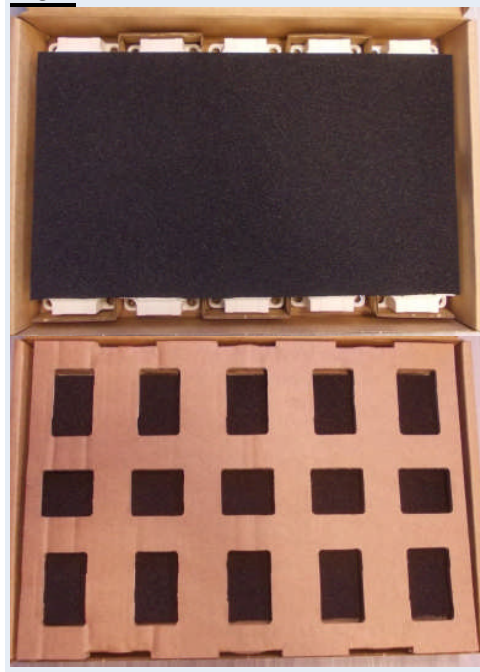
Additional ESD protection on the terminals to protect the IGBT modules.

Description of change:

Old



New



Assessment:

No change of used materials.

The specifications of the formerly mentioned modules remain unchanged according to JEDEC Standard JESD46C: form, fit, function and reliability.

Time schedule:

Planned implementation: end of June 2013

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For any questions, please contact your local Sales office.

Sales Name/ Module type	SP#	OPN
BSM200GB120DN2	SP000014913	BSM200GB120DN2HOSA1
FD200R12KE3	SP000083495	FD200R12KE3HOSA1
FD300R12KE3	SP000083496	FD300R12KE3HOSA1
FF200R06KE3	SP000085283	FF200R06KE3HOSA1
FF300R06KE3	SP000085374	FF300R06KE3HOSA1
FF400R06KE3	SP000085375	FF400R06KE3HOSA1
BSM300GA120DN2S_E3256	SP000091981	BSM300GA120DN2SE325HOSA1
BSM400GA120DN2S_E3256	SP000091982	BSM400GA120DN2SE325HOSA1
BSM100GB120DN2F_E3256	SP000091983	BSM100GB120DN2FE325HOSA1
BSM150GB120DN2F_E3256	SP000091984	BSM150GB120DN2FE325HOSA1
BYM300A160DN13C_E3222	SP000091985	BYM300A160DN13CHOSA1
BSM100GB120DN2_E3254	SP000091990	BSM100GB120DN2E3254HOSA1
BSM100GB120DN2_B2	SP000092009	BSM100GB120DN2B2HOSA1
FD400R12KE3_B5	SP000092010	FD400R12KE3B5HOSA1
FF300R17KE3_S4	SP000092011	FF300R17KE3S4HOSA1
BSM100GB170DN2	SP000092012	BSM100GB170DN2HOSA1
BSM200GA120DLC	SP000092013	BSM200GA120DLCHOSA1
900545	SP000092014	900545HOSA1
900546	SP000092017	900546CHOSA1
FF400R12KE3_S1	SP000092018	FF400R12KE3S1HOSA1
FF400R12KE3_B2	SP000092019	FF400R12KE3B2HOSA1
DZ800S17K3	SP000092021	DZ800S17K3HOSA1
FD400R12KE3	SP000092023	FD400R12KE3HOSA1
FF300R06KE3_B2	SP000092025	FF300R06KE3B2HOSA1
FF200R17KE3_S4	SP000092028	FF200R17KE3S4HOSA1
FZ400R17KE3_S4	SP000092031	FZ400R17KE3S4HOSA1
FZ600R17KE3_S4	SP000092032	FZ600R17KE3S4HOSA1
BSM150GB120DN2	SP000095942	BSM150GB120DN2HOSA1
BSM300GB120DLC	SP000095949	BSM300GB120DLCHOSA1
FF100R12KS4	SP000100705	FF100R12KS4HOSA1
FF150R12KS4	SP000100706	FF150R12KS4HOSA1
FF200R12KS4	SP000100707	FF200R12KS4HOSA1
FZ400R12KS4	SP000100708	FZ400R12KS4HOSA1
BSM100GB170DLC	SP000100709	BSM100GB170DLCHOSA1
BSM150GB170DLC	SP000100710	BSM150GB170DLCHOSA1
BSM200GB170DLC	SP000100711	BSM200GB170DLCHOSA1
BSM200GA170DLC	SP000100712	BSM200GA170DLCHOSA1

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BSM300GA170DLC	SP000100713	BSM300GA170DLCHOSA1
BSM400GA170DLC	SP000100714	BSM400GA170DLCHOSA1
BSM200GB120DLC	SP000100715	BSM200GB120DLCHOSA1
BSM200GB120DLC_E3256	SP000100716	BSM200GB120DLCE3256HOSA1
BSM300GB60DLC	SP000100717	BSM300GB60DLCHOSA1
BSM300GB120DLC_E3256	SP000100718	BSM300GB120DLCE3256HOSA1
BSM75GB120DN2_E3223C-SE	SP000100719	N.A.
BSM100GB120DN2	SP000100720	BSM100GB120DN2HOSA1
BSM100GB120DLC	SP000100721	BSM100GB120DLCHOSA1
BSM150GB120DLC	SP000100723	BSM150GB120DLCHOSA1
FZ600R12KE3	SP000100724	FZ600R12KE3HOSA1
BSM200GA120DN2	SP000100725	BSM200GA120DN2HOSA1
BSM400GA120DN2	SP000100728	BSM400GA120DN2HOSA1
BSM300GA120DN2	SP000100730	BSM300GA120DN2HOSA1
BSM300GA120DLC	SP000100731	BSM300GA120DLCHOSA1
BSM400GA120DLC	SP000100732	BSM400GA120DLCHOSA1
FF200R12KE3	SP000100735	FF200R12KE3HOSA1
FF300R12KE3	SP000100736	FF300R12KE3HOSA1
FZ400R12KE3	SP000100737	FZ400R12KE3HOSA1
FZ400R12KE3B1	SP000100738	FZ400R12KE3B1HOSA1
FF150R12KE3G	SP000100740	FF150R12KE3GHOSA1
DF200R12KE3	SP000100741	DF200R12KE3HOSA1
DF300R12KE3	SP000100742	DF300R12KE3HOSA1
FZ300R12KE3G	SP000100743	FZ300R12KE3GHOSA1
FZ600R12KE3B1	SP000100745	FZ600R12KE3B1HOSA1
BSM150GB170DN2	SP000100746	BSM150GB170DN2HOSA1
BSM150GB170DN2_E3166C-SE	SP000100747	N.A.
FF200R12KE3_B2	SP000100748	FF200R12KE3B2HOSA1
FF300R12KE3_B2	SP000100749	FF300R12KE3B2HOSA1
BSM200GA120DN2S_E3256	SP000100750	BSM200GA120DN2SE325HOSA1
BSM200GA120DLCS	SP000100751	BSM200GA120DLCSHOSA1
BSM200GA170DN2S_E3256	SP000100752	BSM200GA170DN2SE325HOSA1
BSM300GA120DLCS	SP000100753	BSM300GA120DLCSHOSA1
BSM300GA170DN2	SP000100754	BSM300GA170DN2HOSA1
BSM300GA170DN2S_E3256	SP000100757	BSM300GA170DN2SE325HOSA1
FF150R12KE3G_B2	SP000100759	FF150R12KE3GB2HOSA1
BSM200GA120DN2FS_E3256	SP000100765	BSM200GA120DN2FSE32HOSA1
BSM200GA170DN2	SP000100766	BSM200GA170DN2HOSA1

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BYM300A120DN2	SP000100768	BYM300A120DN2HOSA1
BYM600A170DN2	SP000100770	BYM600A170DN2HOSA1
FF150R12KS4_B2	SP000100771	FF150R12KS4B2HOSA1
BYM300B170DN2	SP000100772	BYM300B170DN2HOSA1
FZ600R12KS4	SP000100773	FZ600R12KS4HOSA1
FF300R12KS4	SP000100774	FF300R12KS4HOSA1
FF200R17KE3	SP000100775	FF200R17KE3HOSA1
FF300R17KE3	SP000100776	FF300R17KE3HOSA1
FZ400R17KE3	SP000100777	FZ400R17KE3HOSA1
FZ600R17KE3	SP000100778	FZ600R17KE3HOSA1
BSM300GA120DN2FS_E3256	SP000100779	BSM300GA120DN2FSE32HOSA1
BSM400GA120DN2FS_E3256	SP000100780	BSM400GA120DN2FSE32HOSA1
FF400R12KE3	SP000100781	FF400R12KE3HOSA1
FZ800R12KE3	SP000100782	FZ800R12KE3HOSA1
FF150R12KT3G	SP000100788	FF150R12KT3GHOSA1
FF200R12KT3	SP000100789	FF200R12KT3HOSA1
FF300R12KT3	SP000100790	FF300R12KT3HOSA1
FF400R12KT3	SP000100791	FF400R12KT3HOSA1
DF400R12KE3	SP000100792	DF400R12KE3HOSA1
FD300R12KS4_B5	SP000235361	FD300R12KS4B5HOSA1
FF300R12KT3_E	SP000251629	FF300R12KT3EHOSA1
FF200R12KT3_E	SP000314729	FF200R12KT3EHOSA1
FF400R12KT3_E	SP000357408	FF400R12KT3EHOSA1
FF200R12KE4	SP000370604	FF200R12KE4HOSA1
FF300R12KT4	SP000370607	FF300R12KT4HOSA1
FF450R12KE4	SP000370610	FF450R12KE4HOSA1
FF450R12KT4	SP000370613	FF450R12KT4HOSA1
FF200R12KT4	SP000370618	FF200R12KT4HOSA1
FF300R12KE4	SP000370620	FF300R12KE4HOSA1
FD300R06KE3	SP000393519	FD300R06KE3HOSA1
FD300R12KS4	SP000396766	FD300R12KS4HOSA1
902315	SP000452234	902315HOSA1
BSM300GB120DLC_S5	SP000452238	BSM300GB120DLC5HOSA1
BSM100GB120DN2_S7	SP000465094	BSM100GB120DN2S7HOSA1
BSM150GB120DN2_S7	SP000465098	BSM150GB120DN2S7HOSA1
BSM200GB120DN2_S7	SP000465104	BSM200GB120DN2S7HOSA1
BSM200GA120DN2_S7	SP000465108	BSM200GA120DN2S7HOSA1
FZ400R12KE4	SP000524456	FZ400R12KE4HOSA1

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FZ600R12KE4	SP000524460	FZ600R12KE4HOSA1
FZ900R12KE4	SP000524466	FZ900R12KE4HOSA1
FZ400R12KP4	SP000524472	FZ400R12KP4HOSA1
FZ600R12KP4	SP000524478	FZ600R12KP4HOSA1
FZ900R12KP4	SP000524484	FZ900R12KP4HOSA1
BSM300GA160DN13C_B7	SP000600836	BSM300GA160DN13CB7HOSA1
FF300R12KE4_B2	SP000623168	FF300R12KE4B2HOSA1
FF200R17KE4	SP000713374	FF200R17KE4HOSA1
FF150R17KE4	SP000713524	FF150R17KE4HOSA1
FF300R17KE4	SP000713528	FF300R17KE4HOSA1
FZ400R17KE4	SP000713612	FZ400R17KE4HOSA1
FZ600R17KE4	SP000713626	FZ600R17KE4HOSA1
FF400R12KE3_S5	SP000840094	FF400R12KE3S5HOSA1
FF400R12KE3_S5	SP000840104	FF300R17KE3S5HOSA1
FF400R07KE4	SP000849132	FF400R07KE4HOSA1
FF300R07KE4	SP000849136	FF300R07KE4HOSA1
BSM100GB170DN2_E3256	SP000979232	BSM100GB170DN2E3256HOSA1
BSM150GB170DN2_E3256	SP000979266	BSM150GB170DN2E3256HOSA1
FF400R12KE3_S6	SP000986004	FF400R12KE3S6HOSA1
BSM300GB60DLC_E3256	SP001005992	BSM300GB60DLCE3256HOSA1
BSM150GB170DLC_E3256	SP001005996	BSM150GB170DLCE3256HOSA1
BSM200GB170DLC_E3256	SP001006000	BSM200GB170DLCE3256HOSA1
FF400R12KT4	SP001071854	FF400R12KT4HOSA1