RB-IGBT 900V

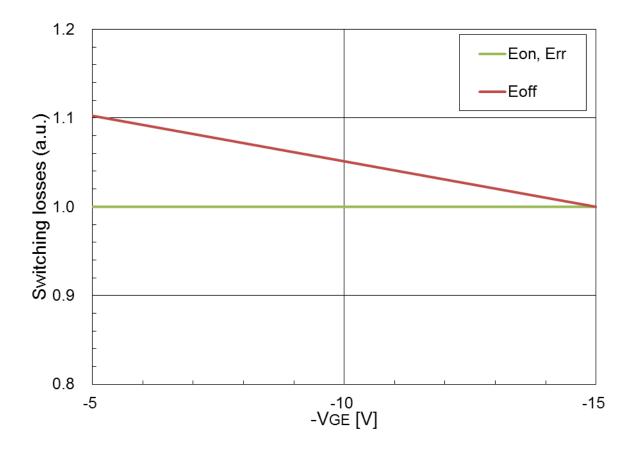
Switching loss characteristics vs. -VGE

Measured module: 4MBI300VG-120R1-50 (RB-IGBT=900V)

Measured condition: A-mode (T2=switching)

 T_i =RT, V_{cc} =500V, I_C =300A, V_{GE} =15V, $-V_{GE}$ =var., R_G =+1.5/-1 Ω

The data below shows switching loss in dependency of the negative bias of the gate voltage signal (-VGE).

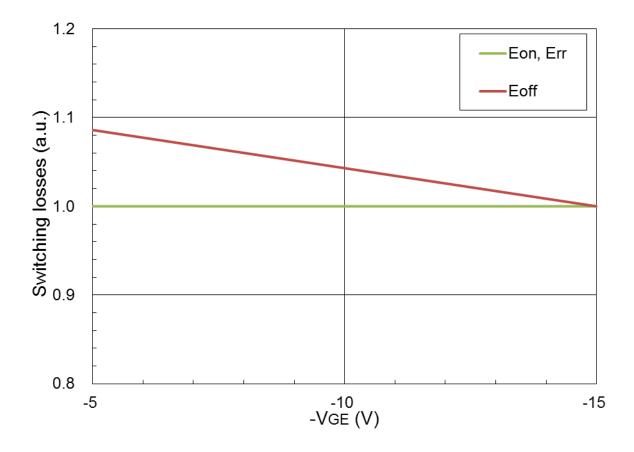


Measured module: 4MBI300VG-120R1-50 (RB-IGBT=900V)

Measured condition: B-mode (T4=switching)

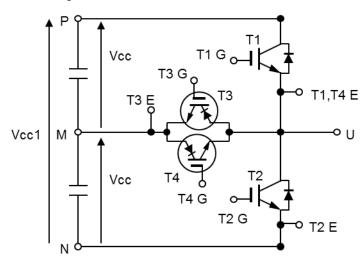
 T_j =RT, V_{cc} =500V, I_C =300A, V_{GE} =15V, $-V_{GE}$ =var., R_G =+1/-1 Ω

The data below shows switching loss in dependency of the negative bias of the gate voltage signal (-V_{GE}).



Appendix

Circuit diagram



Switching modes

SW Mode	Load L	T1	T2	T3	T4
A	M - U	SW	OFF	OFF	ON
	M - U	OFF	SW	ON	OFF
В	P - U	OFF	OFF	SW	ON
	U - N	OFF	OFF	ON	SW

SW: Connection to drive circuit and input gate signal

ON: Bias voltage of gate + 15V

OFF: Bias voltage of gate - 15V

 $V_{cc1} = 2 \cdot V_{cc}$

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