

IGBT Modules / SKiM 4/5

Type	IGBT						Diode				Module		Circuit
	$I_C @ T_S = 25^{\circ}\text{C}$	I_{Cnom}	$V_{CE(sat)} @ T_J = 25^{\circ}\text{C typ.}$	E_{on}	E_{off}	$R_{th(j-a)}$	$I_F @ T_S = 25^{\circ}\text{C}$	$V_F @ T_J = 25^{\circ}\text{C typ.}$	E_{rr}	$R_{th(j-a)}$	Case		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W			
600V - IGBT3 (Trench)													
SKiM301MLI07E4 ²⁾	252	300	1.55	2.8	17	0.3	177	1.40	-	0.53	4		
SKiM401MLI07E4 ²⁾	314	400	1.55	3.3	21	0.25	289	1.40	1.8	0.31	4		
SKiM601MLI07E4 ²⁾	433	600	1.55	6.1	44	0.19	318	1.39	2.4	0.31	4		
1200V - IGBT3 (Trench)													
SKiM200GD126D ³⁾	-	200	1.65	15	25	-	152	2.39	-	0.35	4		
SKiM300GD126D	265	300	1.70	28	47	0.2	260	1.92	-	0.285	4		
SKiM300GD126DL	265	300	1.65	28	47	0.2	260	1.92	-	0.285	4		
SKiM400GD126DM	330	300	1.70	29	46	0.134	300	1.92	-	0.19	4		
SKiM400GD126DLM	330	300	1.65	29	46	0.134	300	1.92	-	0.19	4		
SKiM450GD126D	390	450	1.70	42	70	0.13	345	1.92	-	0.19	5		
SKiM450GD126DL ³⁾	390	450	1.65	42	70	0.13	345	1.92	-	0.19	5		
SKiM600GD126DLM	480	450	1.65	42	70	0.09	450	1.92	-	0.125	5		
SKiM601GD126DM	480	450	1.70	42	70	0.09	450	1.92	-	0.125	5		
1200V - IGBT4 (Trench)													
SKiM301TMLI12E4B ²⁾	311	300	1.80	6.6	19	0.19	249	2.20	1.8	0.29	4		
SKiM301TMLI12E4C ¹⁾	294	300	1.80	6.6	19	0.21	274	2.20	1.8	0.25	4		
SKiM401TMLI12E4B	388	400	1.80	8.8	26	0.16	311	2.20	2.4	0.24	4		
SKiM601TMLI12E4B	529	600	1.80	11	45	0.125	495	2.14	4.4	0.15	4		
SKiM201MLI12E4 ²⁾	206	200	1.80	15	23	0.29	187	2.20	15	0.36	4		
SKiM301MLI12E4	311	300	1.80	22	34	0.19	282	2.20	15	0.24	4		
SKiM304GD12T4D ³⁾	312	300	1.80	-	-	0.19	221	2.33	-	0.25	4		
SKiM455GD12T4D1 ³⁾	400	450	1.80	34	40	0.14	295	2.33	28	0.19	5		

Footnotes: 1) Sample status / 2) In production new / 3) Not for new designs

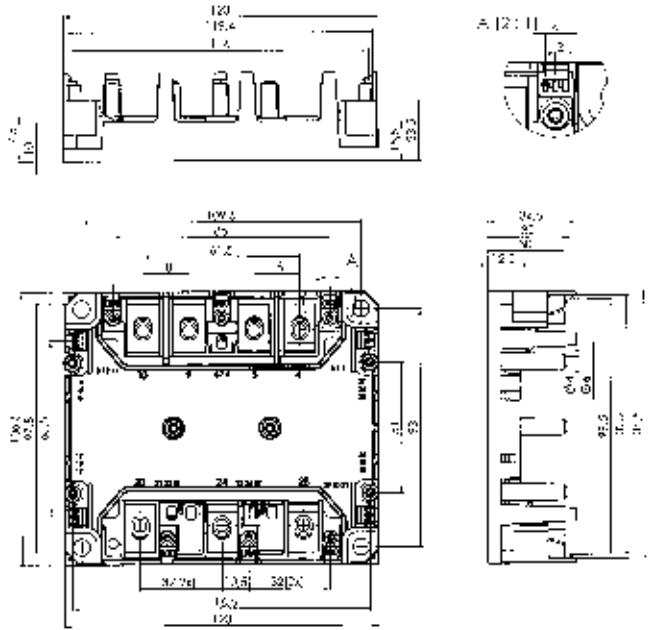
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Type	IGBT						Diode				Module		Circuit
	$I_C @ T_S = 25^{\circ}\text{C}$	I_{Cnom}	$V_{CE(sat)} @ T_J = 25^{\circ}\text{C typ.}$	E_{on}	E_{off}	$R_{th(j-a)}$	$I_F @ T_S = 25^{\circ}\text{C}$	$V_F @ T_J = 25^{\circ}\text{C typ.}$	E_{rr}	$R_{th(j-a)}$	Case		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W			
1700V - IGBT3 (Trench)													
SKiM120GD176D	110	125	2.00	72	46	0.4	105	1.6	22	0.56	4		
SKiM220GD176DH4	220	250	2.00	145	100	0.21	220	1.7	65	0.26	4		
SKiM270GD176D	260	300	2.00	170	120	0.175	215	1.7	-	0.29	5		

Footnotes: 1) Sample status / 2) In production new / 3) Not for new designs

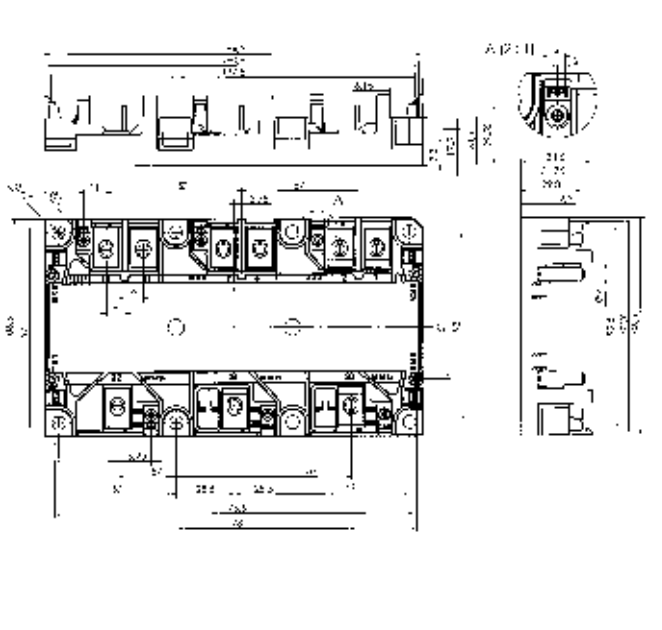
Cases

SKiM 4



Dimensions in mm

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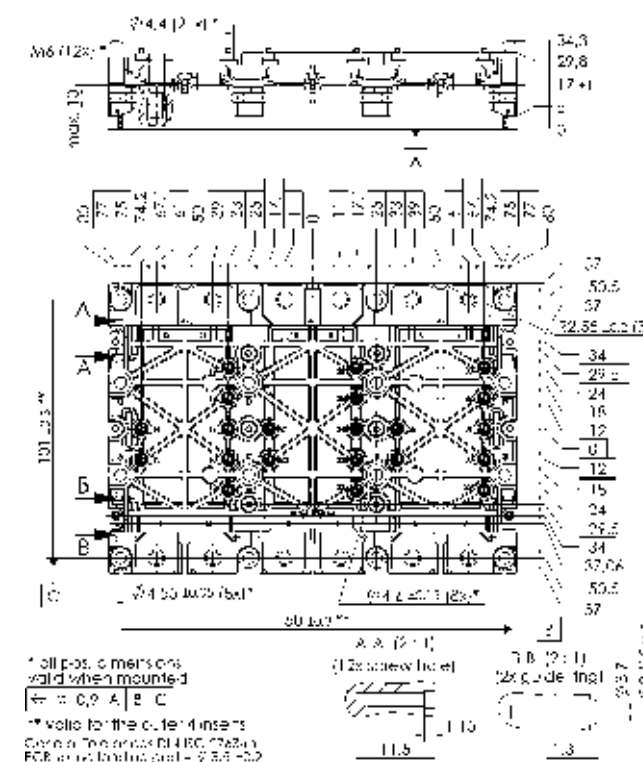
Type	IGBT						Diode				Module		
	$I_C @ T_J = 25^{\circ}\text{C}$ A	I_{Cnom} A	$V_{CE(sat)} @ T_J = 25^{\circ}\text{C typ.}$ V	E_{on} mJ	E_{off} mJ	$R_{th(j-s)}$ K/W	$I_F @ T_J = 25^{\circ}\text{C}$ A	$V_F @ T_J = 25^{\circ}\text{C typ.}$ V	E_{rr} mJ	$R_{th(j-s)}$ K/W	Case	Circuit	
600V - IGBT3 (Trench)													
SKiM406GD066HD ¹⁰⁾	468	400	1.45	8	25	0.135	360	1.53	12	0.243	63		
SKiM606GD066HD ¹⁰⁾	640	600	1.45	16	53	0.105	462	1.52	21	0.201	63		
SKiM909GD066HD ¹⁰⁾	897	900	1.45	36	88	0.078	690	1.52	29	0.135	93		
1200V - IGBT4 (Trench)													
SKiM609GAL12E4 ²⁾	748	600	1.85	136	83	0.068	1397	1.7	39	0.048	93		
SKiM609GAR12E4 ²⁾	748	600	1.85	136	83	0.068	1397	1.7	39	0.048	93		
SKiM306GD12E4 ¹⁰⁾	410	300	1.85	19	39	0.116	305	2.14	21	0.218	63		
SKiM459GD12E4 ¹⁰⁾	554	450	1.85	22	57	0.092	438	2.14	40	0.155	93		
1700V - IGBT4 (Trench)													
SKiM429GD17E4HD ^{2) 10)}	595	420	1.90	245	180	0.079	411	1.66	99	0.169	93		

Footnotes: 2) In production new / 10) Also available with new HpTp, see Accessories/Thermal Interface Materials

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Cases

SKiM 63



SKiM 93

