SKKD 105F



SEMIPACK® 1

Fast Diode Modules

SKKD 105F

Features

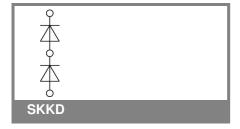
- Heat transfer through ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- SKKD half bridge connection; centre tap connections: SKMD common cathode, SKND common anode
- UL recognized, file no. E 63 532

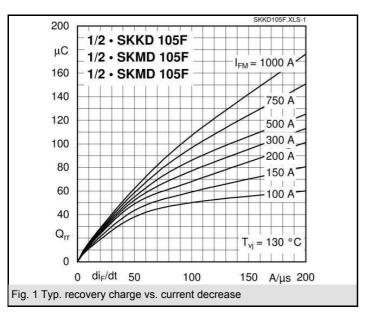
Typical Applications*

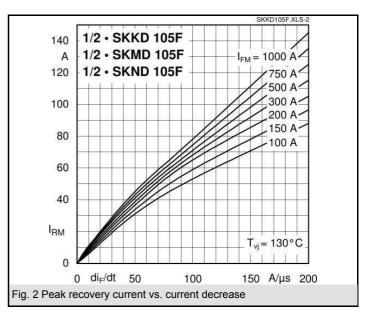
- Self-commutated inverters
- DC choppers
- · AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

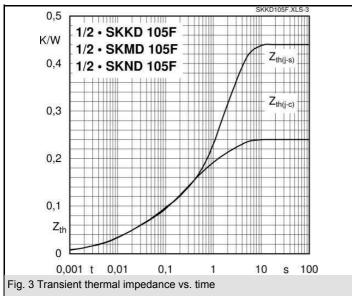
V _{RSM} V	V _{RRM} V	I _{FRMS} = 200 A (maximum value for continuous operation) I _{FAV} = 105 A (sin. 180; T _c = 83 °C)	
1600	1600	SKKD 105F16	

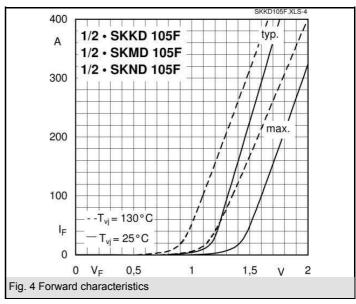
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	102 (65)	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	2500	Α
	T _{vi} = 130 °C; 10 ms	2100	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	31250	A²s
	T _{vj} = 130 °C; 8,3 10 ms	22000	A²s
V _F	T _{vj} = 25 °C; I _F = 300 A	max. 2,05	V
V _(TO)	T _{vj} = 130 °C	max. 1,2	V
r _T	T _{vj} = 130 °C	max. 2,5	mΩ
I_{RD}	$T_{vj} = 25 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	max. 1	mA
I_{RD}	T_{vj} = 130 °C; V_{RD} = V_{RRM}	max. 30	mA
Q _{rr}	T _{vi} = 130 °C, I _F = 100 A,	50	μC
I_{RM}	$-di/dt = 50 \text{ A/}\mu\text{s}, V_R = 30 \text{ V}$	53	Α
t _{rr}		1890	ns
E _{rr}		0,8	mJ
R _{th(j-c)}	per diode / per module	0,24 / 0,12	K/W
R _{th(c-s)}	per diode / per module	0,2 / 0,1	K/W
T _{vi}		- 40 + 130	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s; 1 s / 1 min.	3600 / 3000	V~
M_s	to heatsink	5 ± 15 %	Nm
M_t	to terminals	3 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	120	g
Case	SKKD	A 10	

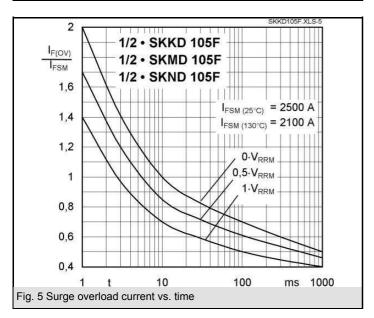




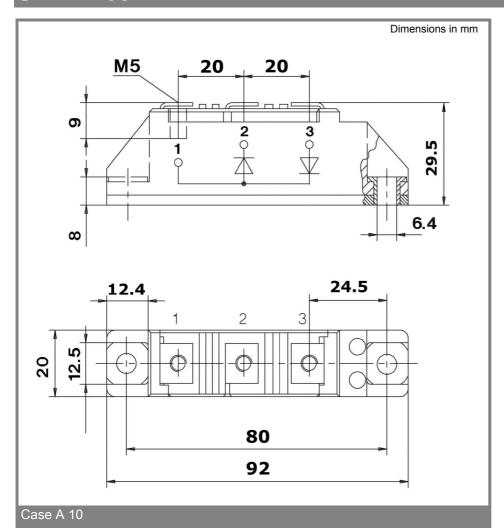


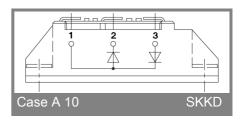






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*IMPORTANT INFORMATION AND WARNINGS

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