SKKD 40F, SKMD 40F



SEMIPACK[®] 1

Fast Diode Modules

SKKD 40F SKMD 40F

Features

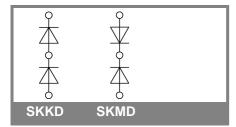
- Heat transfer through ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- SKKD half bridge connection; SKMD centre tap connection, common cathode
- UL recognized, file no. E 63 532

Typical Applications*

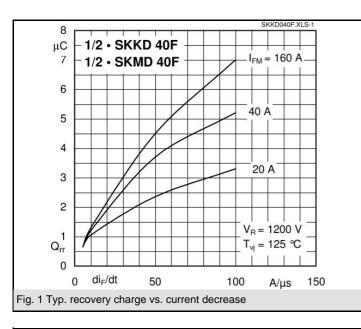
- Self-commutated inverters
- DC choppers
- AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching application

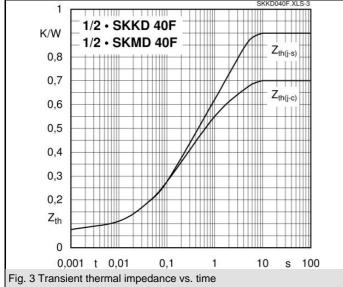
V _{RSM}	V _{RRM}	I _{FRMS} = 110 A (maximum value for continuous operation)		
V	V	I _{FAV} = 40 A (sin. 180°; 50Hz; T _c = 80 °C)		
400	400	SKKD 40F04	SKMD 40F04	
600	600	SKKD 40F06	SKMD 40F06	
800	800	SKKD 40F08	SKMD 40F08	
1000	1000	SKKD 40F10	SKMD 40F10	

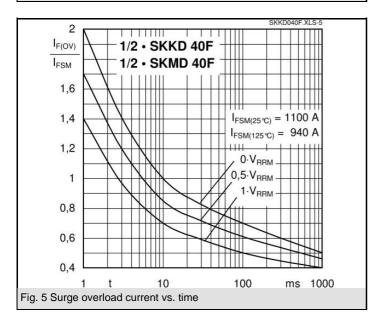
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	37 (25)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	1100	А
	T _{vi} = 125 °C; 10 ms	940	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	6000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	4400	A²s
V _F	T _{vi} = 25 °C; I _F = 150 A	max. 2	V
V _(TO)	T _{vi} = 125 °C	max. 1,2	V
r _T	T _{vi} = 125 °C	max. 4	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	max. 0,5	mA
I _{RD}	T _{vj} = 125 °C; V _{RD} = V _{RRM}	max. 50	mA
Q _{rr}	T _{vi} = 125 °C, I _F = 100 A,	3	μC
I _{RM}	-di/dt = 30 A/µs, V _R = 30 V	10	Α
t _{rr}		600	ns
E _{rr}		0,05	mJ
R _{th(j-c)}	per diode / per module	0,7 / 0,35	K/W
R _{th(c-s)}	per diode / per module	0,2 / 0,1	K/W
T _{vj}		- 40 + 125	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	٧~
Ms	to heatsink	5 ± 15 %	Nm
Mt	to terminals	3 ± 15%	Nm
a		5 * 9,81	m/s²
m	approx.	120	g
Case	SKKD	A 10	
	SKMD	A 11	

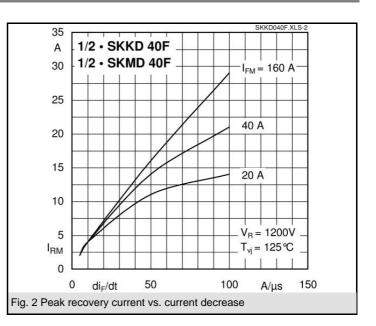


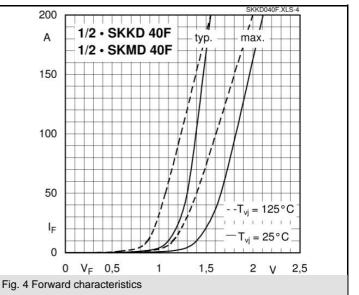
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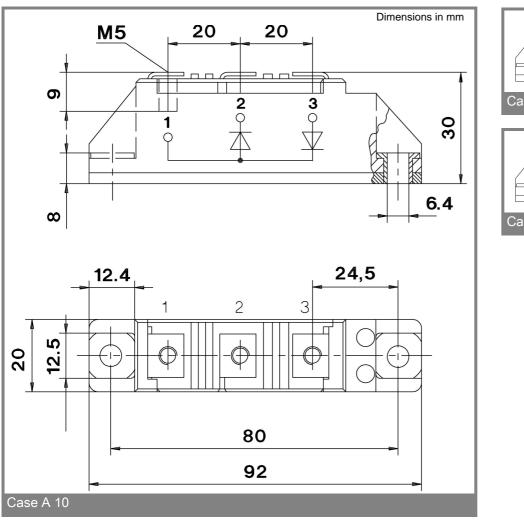






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SKKD 40F, SKMD 40F



Case A 11 SKMD

* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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