SKKD 40F, SKMD 40F



SEMIPACK[®] 1

Fast Diode Modules

SKKD 40F SKMD 40F

Features

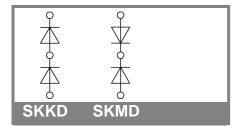
- Heat transfer through ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- SKKD half bridge connection; SKMD centre tap connection, common cathode
- UL recognized, file no. E 63 532

Typical Applications

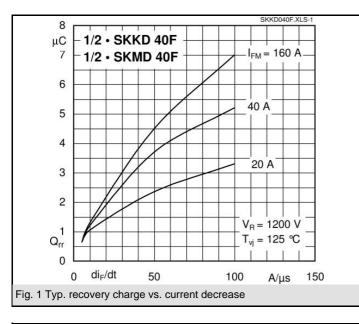
- Self-commutated inverters
- DC choppers
- AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching application

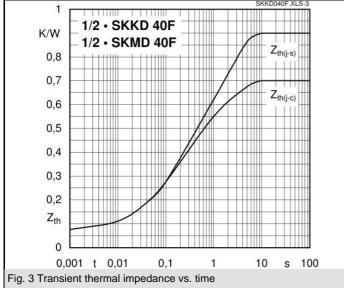
V _{RSM}	V _{RRM}	I _{FRMS} = 110 A (maximum value for continuous operation)		
V	V	I _{FAV} = 40 A (sin. 180°; 50Hz; T _c = 80 °C)		
400	400	SKKD 40F04	SKMD 40F04	
600	600	SKKD 40F06	SKMD 40F06	
800	800	SKKD 40F08	SKMD 40F08	
1000	1000	SKKD 40F10	SKMD 40F10	

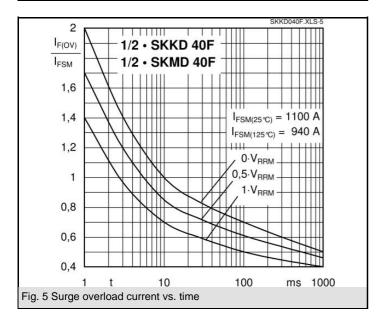
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	37 (25)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	1100	A
	T _{vi} = 125 °C; 10 ms	940	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	6000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	4400	A²s
V _F	T _{vi} = 25 °C; I _F = 150 A	max. 2	V
V _(TO)	T _{vj} = 125 °C	1,2	V
r _T	$T_{vj} = 125 \text{ °C}$	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	°C
T _{stg}		- 40 + 125 °C	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	٧~
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	
	SKMD	A 11	

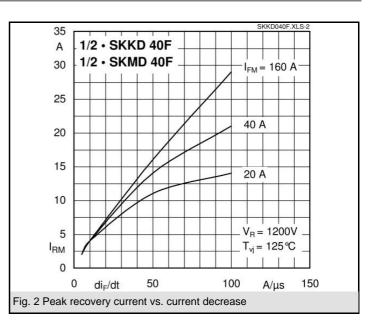


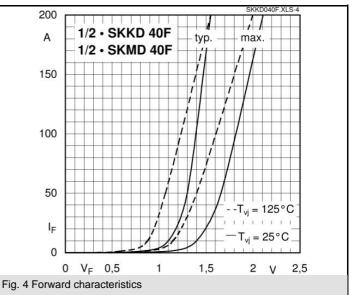
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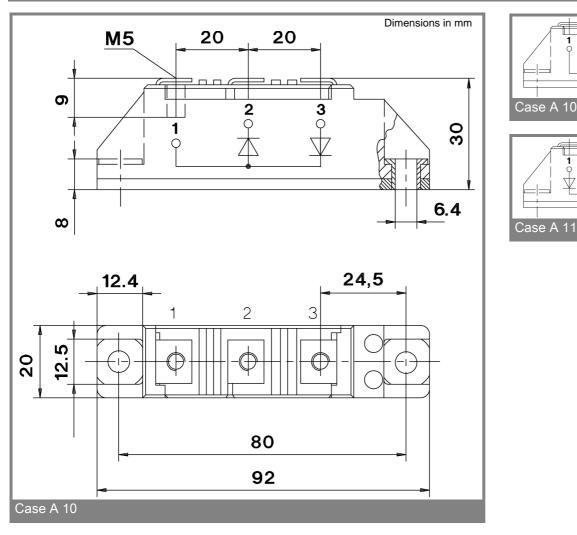


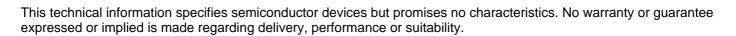






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