SKKD 60F



SEMIPACK[®] 2

Fast Diode Modules

SKKD 60F

Features

- · Heat transfer through ceramic isolated metal baseplate
- Very short recovery timesSoft recovery
- · Low switching losses
- Up to 1600 V peak inverse voltage
- UL recognized, file no. E 63 532

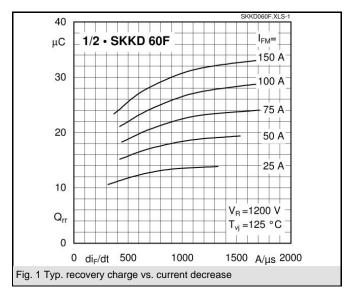
Typical Applications

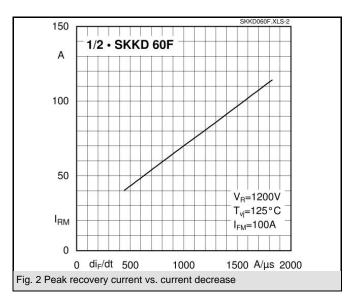
- Self-commutated inverters
- DC choppers
- AC motor speed control
- inductive heating
- Uninterruptible power supplies
- Electronic welders
- · General power switching applications

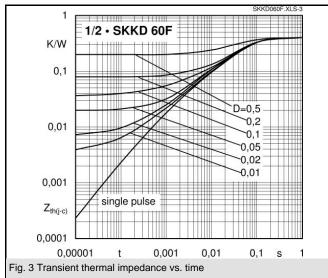
V_{RSM}	V_{RRM}	I _{FRMS} = 110 A (maximum value for continuous operation)	
V	V	I_{FAV} = 60 A (sin. 180; 50 Hz; T_c = 83 °C)	
1700	1700	SKKD 60F17	

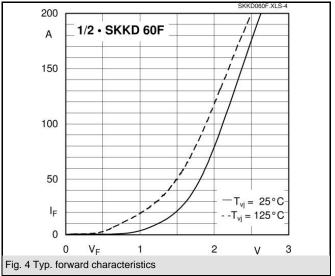
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	58 (49)	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	1000	Α
	T _{vi} = 150 °C; 10 ms	900	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	5000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	4000	A²s
V _F	T _{vi} = 25 °C; I _F = 100 A	max. 2,7	V
$V_{(TO)}$	T _{vi} = 150 °C	max. 1,5	V
r _T	T _{vi} = 150 °C	max. 9	mΩ
I _{RD}	T_{vj}^{s} = 25 °C; V_{RD} = V_{RRM}	max. 0,4	mA
I_{RD}	T_{vj} = 125 °C; V_{RD} = V_{RRM}	max. 25	mA
Q _{rr}	T _{vi} = 125 °C, I _F = 60 A,	18	μC
I _{RM}	-di/dt = 500 A/μs, V _R = 1200 V	60	Α
t _{rr}		800	ns
E _{rr}		5	mJ
R _{th(j-c)}	per diode / per module	0,4 / 0,2	K/W
R _{th(c-s)}	per diode / per module	0,1 / 0,05	K/W
T _{vj}		- 40 + 150	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	4800 / 4000	V~
M _s	to heatsink	5 ± 15 %	Nm
Mt	to terminals	5 ± 15%	Nm
а		5 * 9,81	m/s²
m	approx.	160	g
Case		A 23	

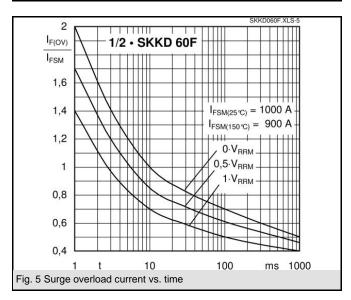




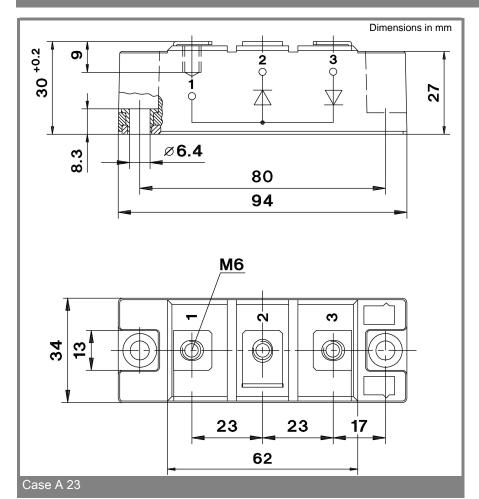


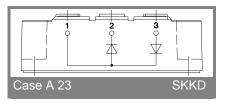






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