SKKD 205F, SKND 205F



SEMIPACK[®] 2

Fast Diode Modules

SKKD 205F SKND 205F

Preliminary Data

Features

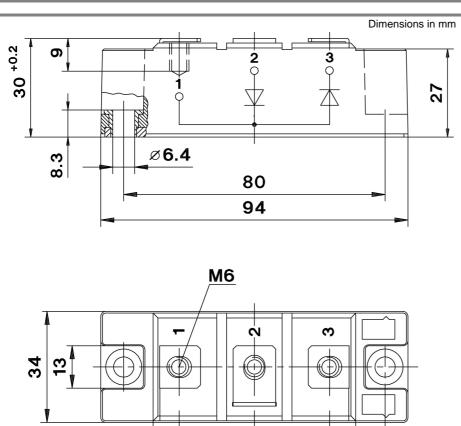
- Very soft recovery over the whole current range
- Very short recovery times
- Low switching losses
- Heat transfer through ceramic isolated metal baseplate
- Materials and distances according to UL

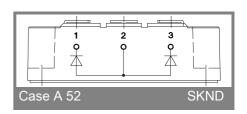
Typical Applications

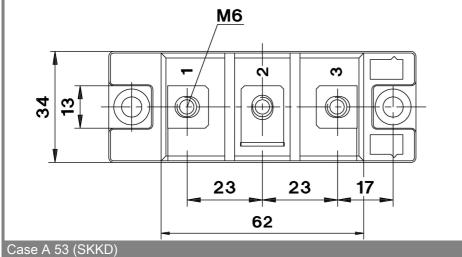
- Self-commutated inverters
- DC choppers
- AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

V _{RSM}	V _{RRM}	I _{FRMS} = 455 A (maximum value for continuous operation)		
V	V	I _{FAV} = 205 A (sin. 180; 50 Hz; T _c = 87 °C)		
600	600	SKKD 205F06	SKND 205F06	

Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 87 °C	205	А
I _{FSM}	T _{vi} = 25 °C; 10 ms ms	3500	А
_	T _{vi} = 150 °C; 10 ms ms	3000	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	61250	A²s
	T _{vj} = 150 °C; 8,3 10 ms	45000	A²s
V _F	T _{vi} = 25 °C; I _F = 400 A	max. 1,3	V
V _(TO)	T _{vj} = 150 °C	max. 0,9	V
r _T	$T_{vj} = 150 \ ^{\circ}C$	max. 2	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	max. 0,4	mA
I _{RD}	T _{vj} = 150 °C; V _{RD} =V _{RRM}	max. 30	mA
Q _{rr}	T _{vi} = 150 °C, I _F = 300 A,	25	μC
I _{RM}	-di/dt = 800 A/µs, V _R = 300 V	120	А
t _{rr}		130	ns
E _{rr}		-	mJ
R _{th(j-c)}	per diode / per module	0,16 / 0,08	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.	3600 / 3000	٧~
M _s	to heatsink	5 ± 15 %	
Mt	for terminals	5 ± 15 %	
а		5 * 9,81	m/s²
m	approx.	250	g
Case	SKND	A 52	
	SKKD	A 53	







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