SKKD 115F



SEMIPACK[®] 1

Fast Diode Modules

SKKD 115F

Features

- Heat transfer through ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- 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

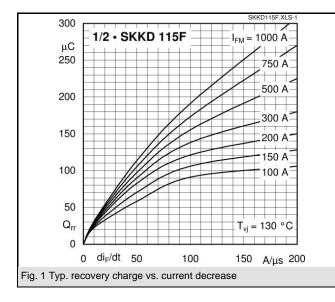
V _{RSM}	V _{RRM}	I _{FRMS} = 200 A (maximum value for continuous operation)		
V	V	I _{FAV} = 115 A (sin. 180; T _c = 83 °C)		
1200	1200	SKKD 115F12		
1400	1400	SKKD 115F14		

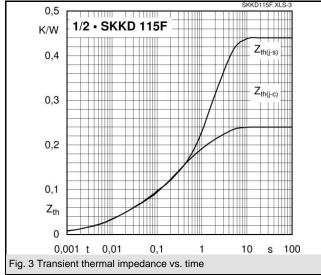
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	113 (83)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	2500	Α
	T _{vi} = 130 °C; 10 ms	2100	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	31250	A²s
	T _{vj} = 130 °C; 8,3 10 ms	22000	A²s
V _F	T _{vi} = 25 °C; I _F = 300 A	max. 1,8	V
V _(TO)	T _{vj} = 130 °C	max. 1,1	V
r _T	$T_{vj} = 130 \ ^{\circ}C$	max. 2	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	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,	90	μC
I _{RM}	-di/dt = 50 A/μs, V _R = 30 V	90	А
t _{rr}		2000	ns
E _{rr}		1,35	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 _{vj}		- 40 + 130	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
Ms	to heatsink	5 ± 15 %	Nm
M _t	to terminals	3 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	120	g
Case		A 10	

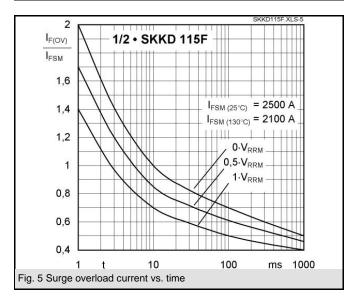


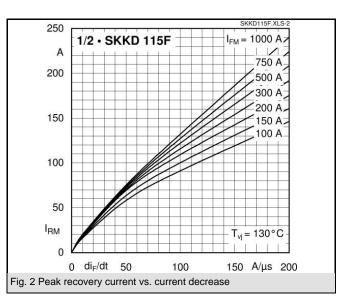
29-06-2009 DIL

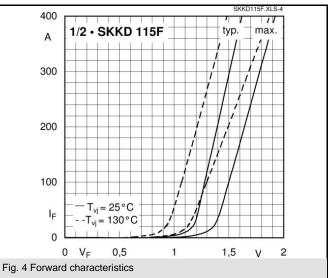
DDE, I H I RISTOR, MOD



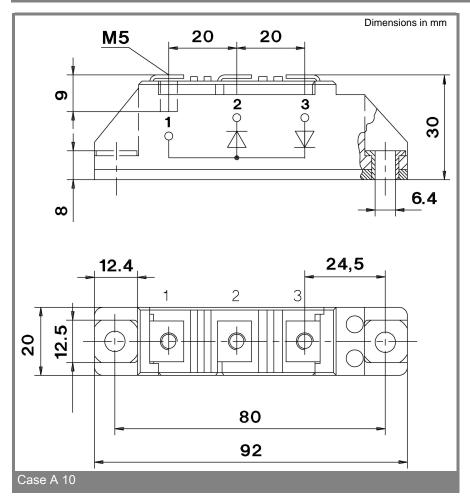








SKKD 115F



This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.