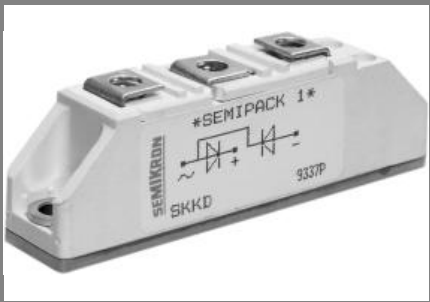


SKKD 115F



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

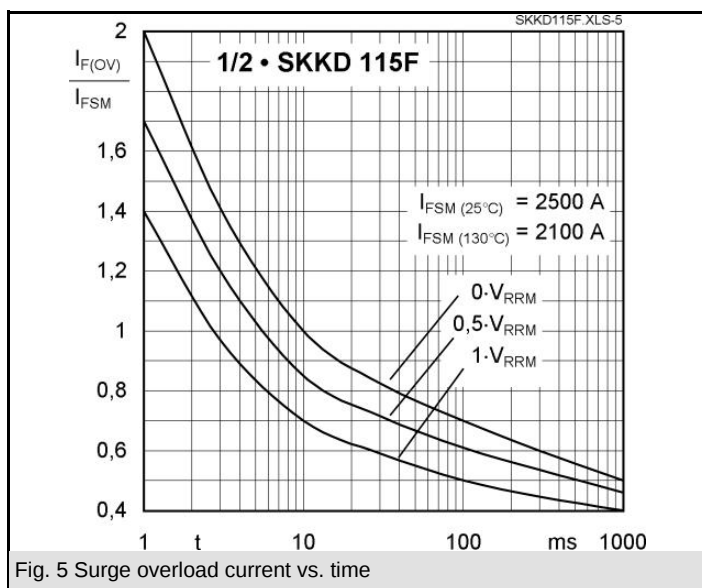
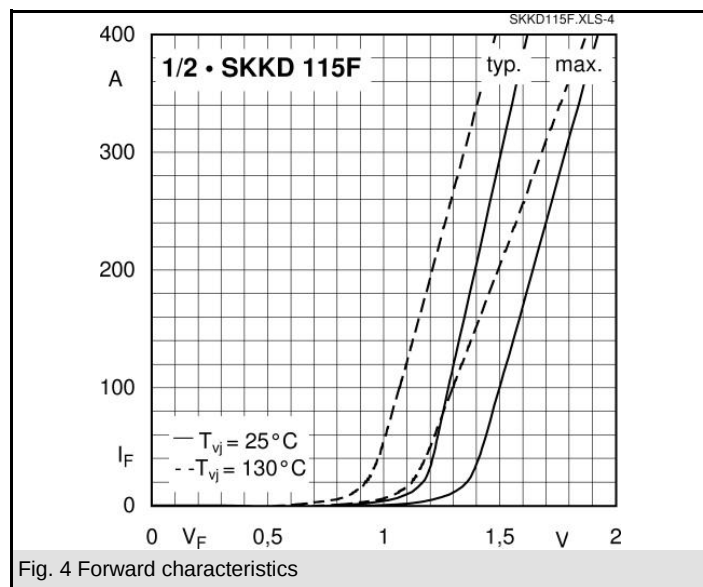
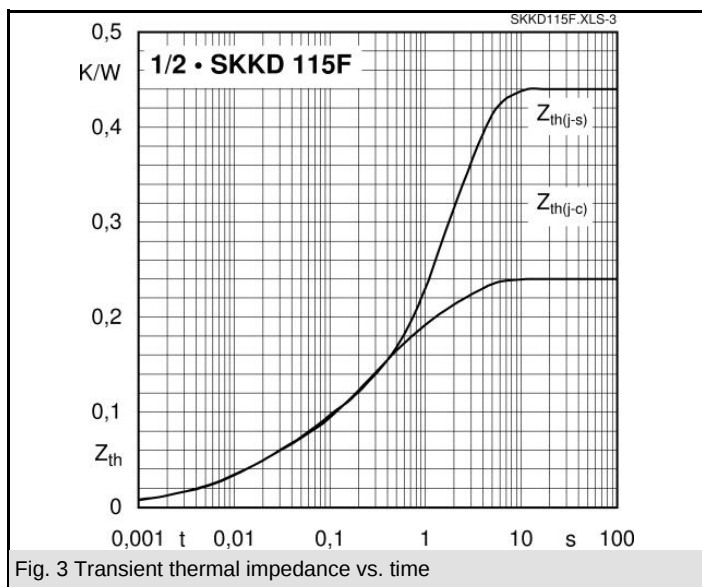
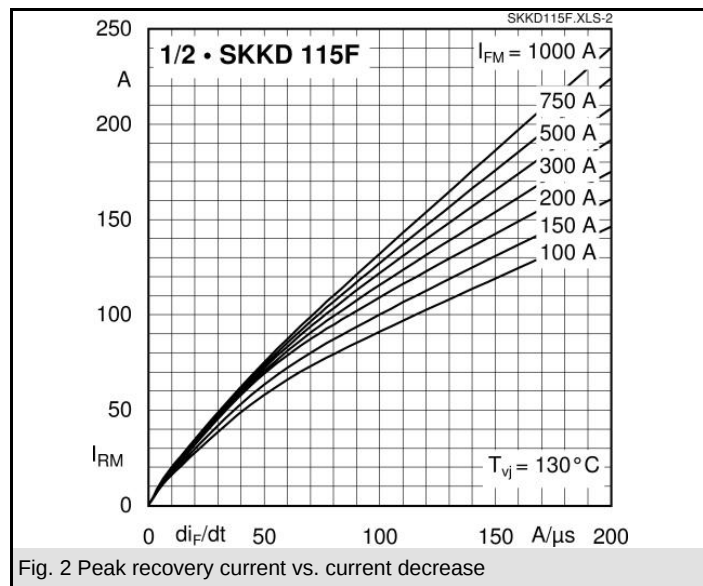
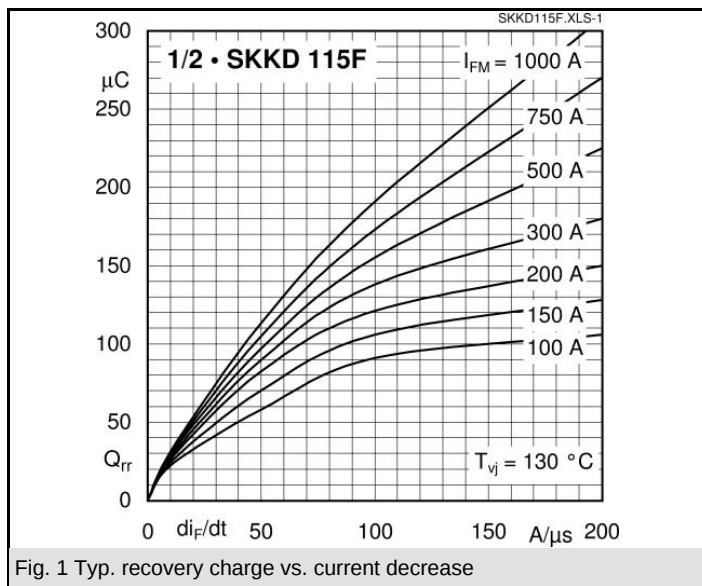
- Self-commutated inverters
- DC choppers
- AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

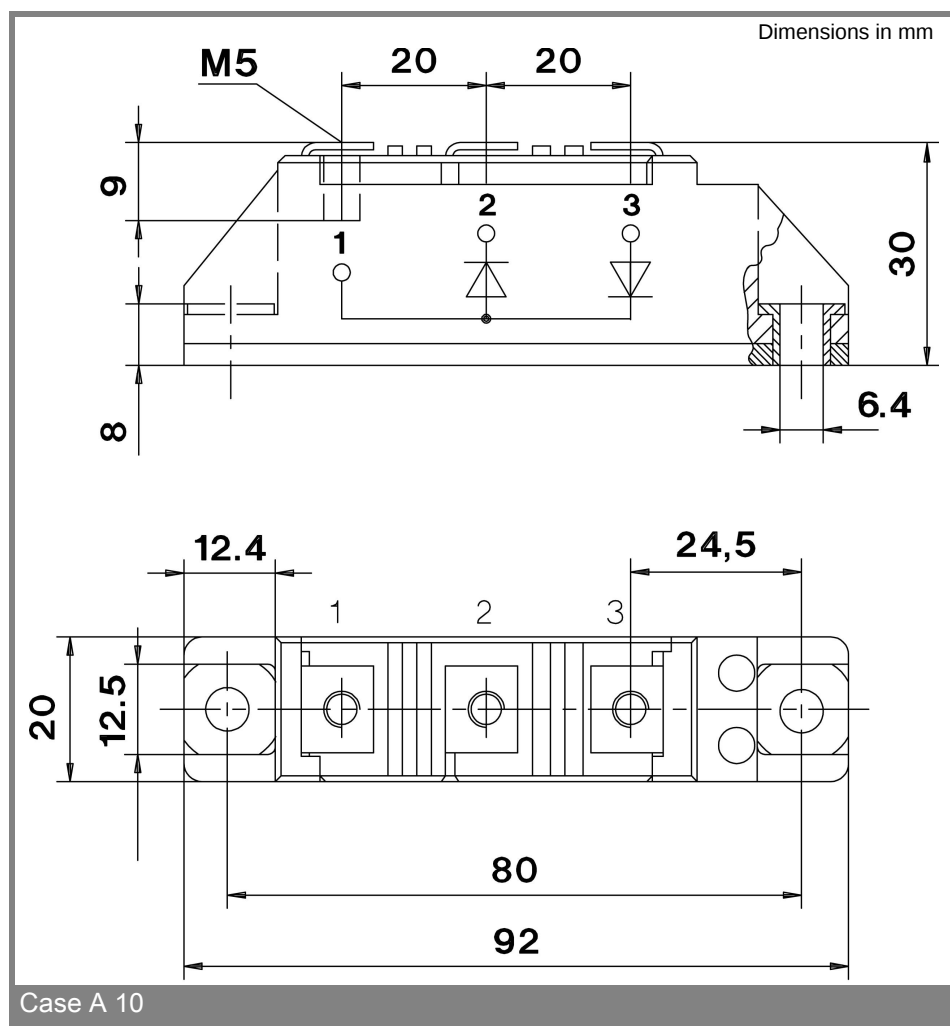
V_{RSM} V	V_{RRM} V	$I_{FRMS} = 200\text{ A}$ (maximum value for continuous operation) $I_{FAV} = 115\text{ A}$ (sin. 180; $T_c = 83\text{ °C}$)		
1200	1200	SKKD 115F12		
1400	1400	SKKD 115F14		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 85\text{ (100) °C}$	113 (83)	A
I_{FSM}	$T_{vj} = 25\text{ °C}; 10\text{ ms}$	2500	A
	$T_{vj} = 130\text{ °C}; 10\text{ ms}$	2100	A
i^2t	$T_{vj} = 25\text{ °C}; 8,3 \dots 10\text{ ms}$	31250	A²s
	$T_{vj} = 130\text{ °C}; 8,3 \dots 10\text{ ms}$	22000	A²s
V_F	$T_{vj} = 25\text{ °C}; I_F = 300\text{ A}$	max. 1,8	V
$V_{(TO)}$	$T_{vj} = 130\text{ °C}$	max. 1,1	V
r_T	$T_{vj} = 130\text{ °C}$	max. 2	mΩ
I_{RD}	$T_{vj} = 25\text{ °C}; V_{RD} = V_{RRM}$	max. 1	mA
I_{RD}	$T_{vj} = 130\text{ °C}; V_{RD} = V_{RRM}$	max. 30	mA
Q_{rr}	$T_{vj} = 130\text{ °C}; I_F = 100\text{ A},$ $-di/dt = 50\text{ A/}\mu\text{s}, V_R = 30\text{ V}$	90	μC
I_{RM}		90	A
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~
M_s	to heatsink	5 ± 15 %	Nm
M_t	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	120	g
Case		A 10	



SKKD





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