V_{RSM} V_{RRM} V	I_{FAV} (sin. 180; T_{case} = 85 °C) 400 A	445 A
600	–	**SKN 341 F 06**
800	**SKN 340 F 08**	**SKN 341 F 08**
1000	–	**SKN 341 F 10**
1200	**SKN 340 F 12**	**SKN 341 F 12**
1400	**SKN 340 F 14**	–
1600	**SKN 340 F 16**	–
1800	**SKN 340 F 18**	–

Symbol	Conditions		SKN 340 F	SKN 341 F	Units
I_{FAV}	sin. 180; DSC (T_{case} = ...); 2000 Hz		340 (100 °C)	340 (106 °C)	A
	sin.180; R_{thha} = 0,05 °C/W; T_{amb} = 35 °C; DSC		360	390	A
I_{FSM}	T_{vj} = 25 °C	10 ms	4 000	5 000	A
	T_{vj} = 150 °C	10 ms	3 500	4 500	A
i^2t	T_{vj} = 25 °C	10 ms	80 000	125 000	A^2s
	T_{vj} = 150 °C	10 ms	61 250	101 250	A^2s
Q_{rr}	T_{vj} = 150 °C; I_{FM} = 300 A; $-\frac{di_F}{dt} = 100 \frac{A}{\mu s}$		165	55	µC
I_{RM}	T_{vj} = 150 °C; I_{FM} = 300 A; $-\frac{di_F}{dt} = 100 \frac{A}{\mu s}$		150	70	A
I_R	T_{vj} = 25 °C; $V_R = V_{RRM}$		4	4	mA
	T_{vj} = 150 °C; $V_R = V_{RRM}$		20	20	mA
t_{rr}	T_{vj} = 150 °C; I_{FM} = 300 A; $-\frac{di_F}{dt} = 100 \frac{A}{\mu s}$;		2,2	1,6	µs
V_F	T_{vj} = 25 °C; I_F = 1000 A; max.		2,55	2,45	V
$V_{(TO)}$	T_{vj} = 150 °C		1,1	0,95	V
r_T	T_{vj} = 150 °C		1	0,9	mΩ
R_{thjc}	DSC/SSC (Double-sided cooling/ single-sided cooling)		0,075/0,15		°C/W
R_{thch}			0,02/0,04		°C/W
T_{vj}			−40 ... + 150		°C
T_{stg}			−40 ... + 150		°C
F	SI units		4...5		kN
	US units		900...1100		lbs.
w			51		g
Case			E18		

Fast Recovery Rectifier Diodes

SKN 340 F
SKN 341F

Features

- Small recovered charge
- Soft recovery
- Up to 1800 V reverse voltage
- Hermetic capsule type metal cases with ceramic insulators

Typical Applications

- Inverse diodes for GTO and asymmetric thyristors
- Inverters and choppers
- A. C. motor control
- Uninterruptible power supplies

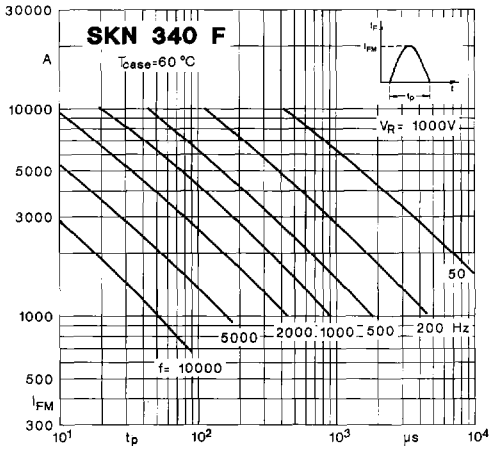


Fig. 1 a Rated sinusoidal peak forward current

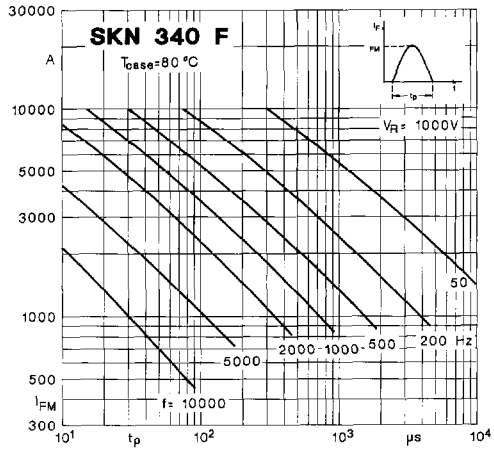


Fig. 1 b Rated sinusoidal peak forward current

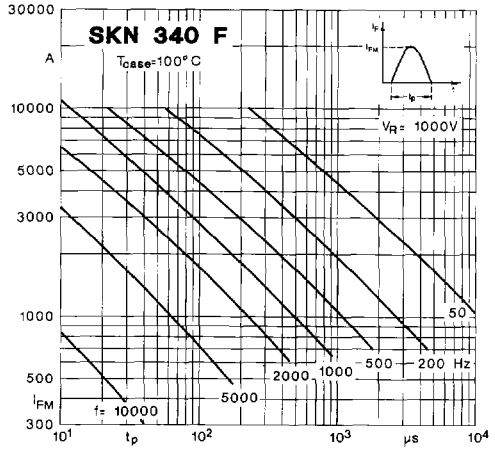


Fig. 1 c Rated sinusoidal peak forward current

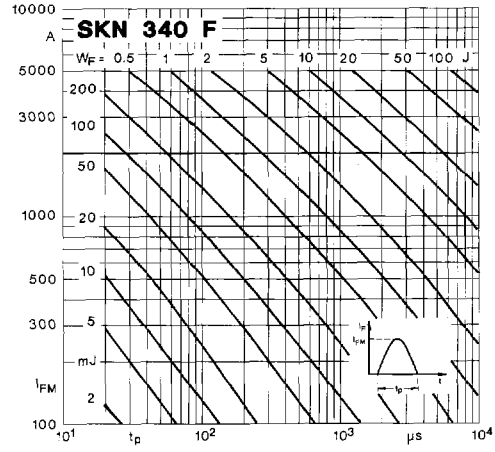


Fig. 2 a Forward energy dissipation, sinusoidal

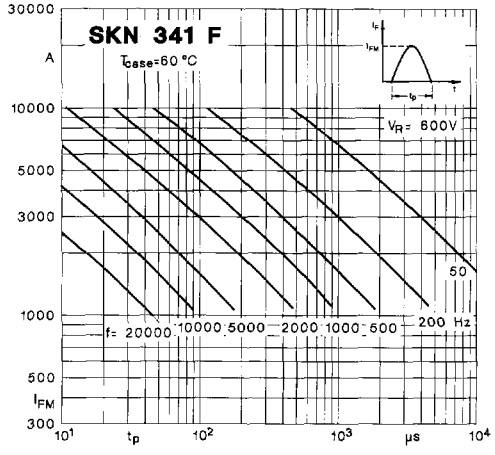


Fig. 1 d Rated sinusoidal peak forward current

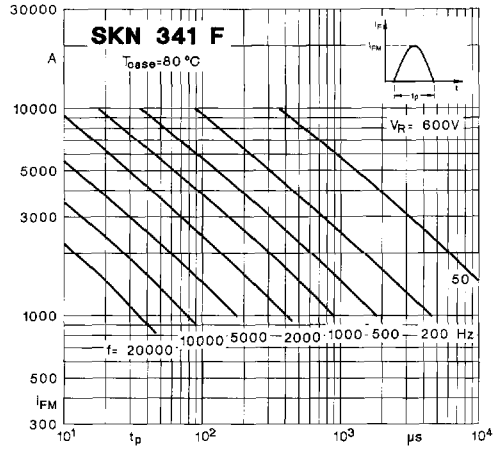


Fig. 1 e Rated sinusoidal peak forward current

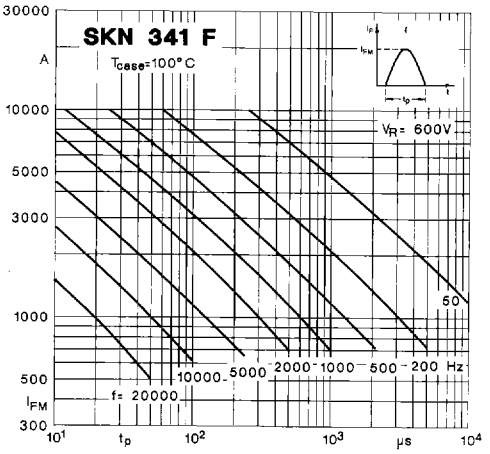


Fig. 1 f Rated sinusoidal peak forward current

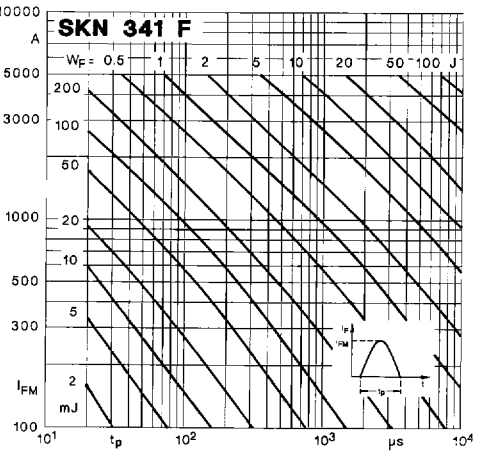


Fig. 2 b Forward energy dissipation, sinusoidal

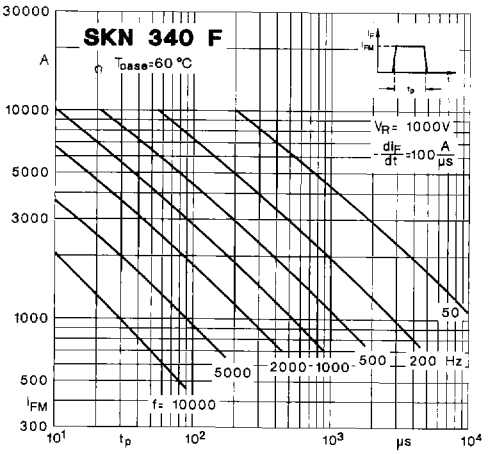


Fig. 3 a Rated rectangular peak forward current

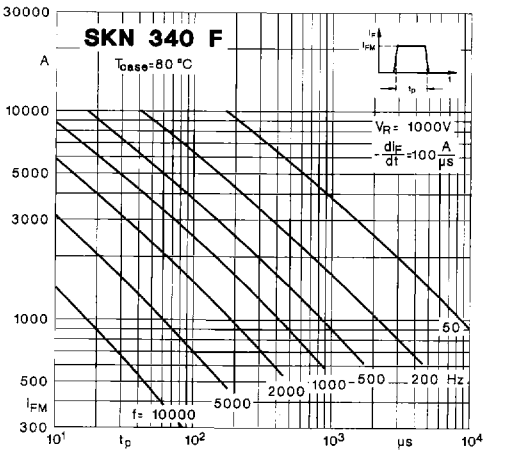


Fig. 3 b Rated rectangular peak forward current

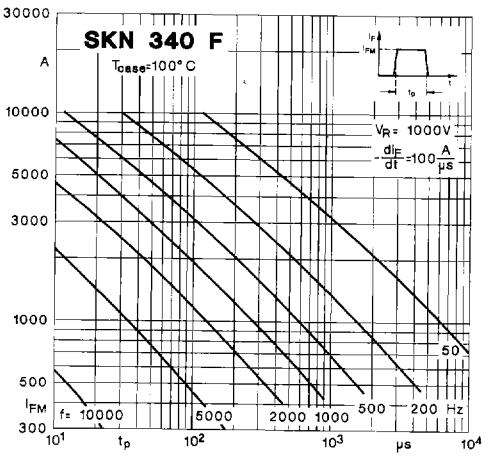


Fig. 3 c Rated rectangular peak forward current

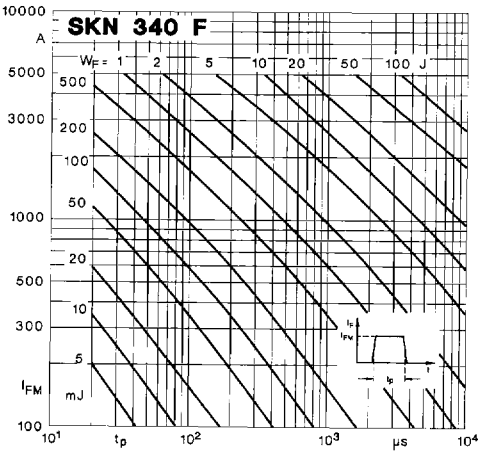


Fig. 4 a Forward energy dissipation, rectangular

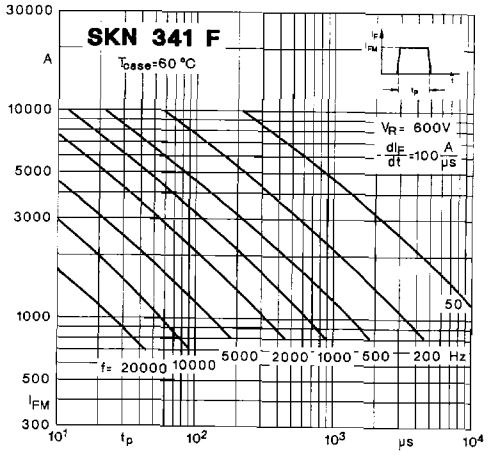


Fig. 3 d Rated rectangular peak forward current

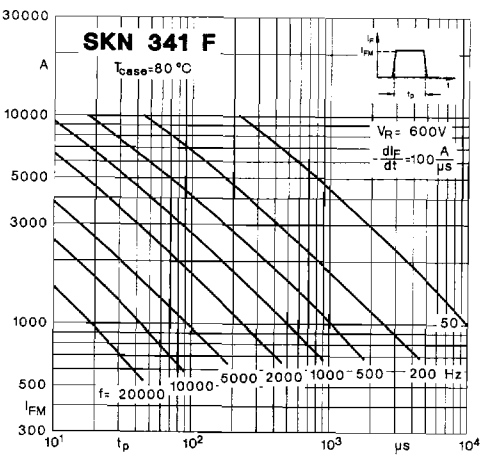


Fig. 3 e Rated rectangular peak forward current

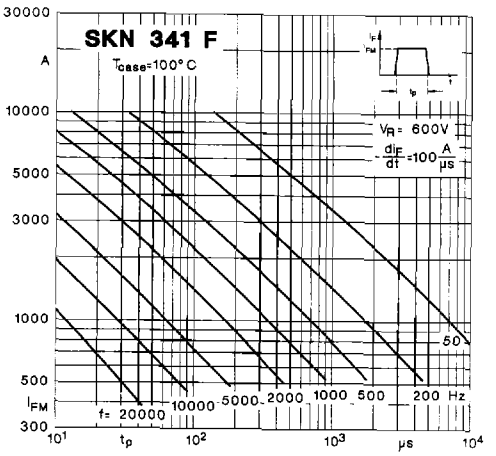


Fig. 3 f Rated rectangular peak forward current

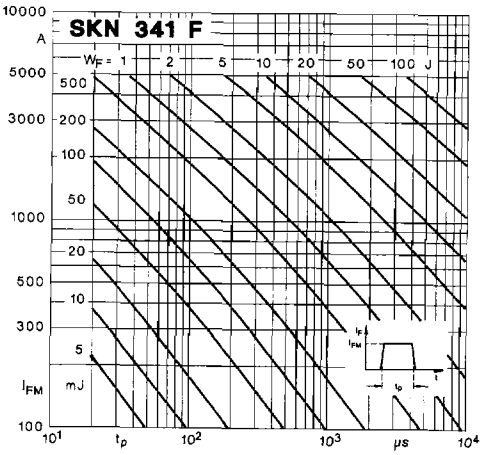


Fig. 4 b Forward energy dissipation, rectangular

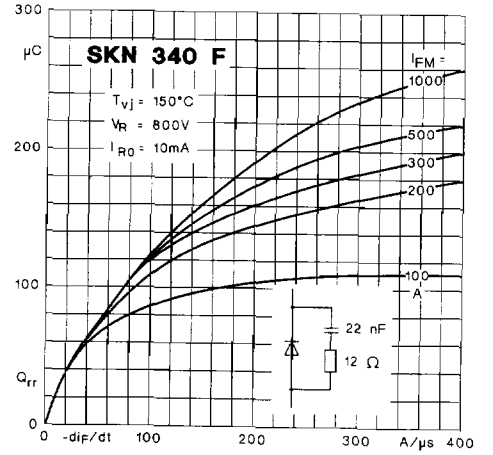


Fig. 5 a Recovered charge

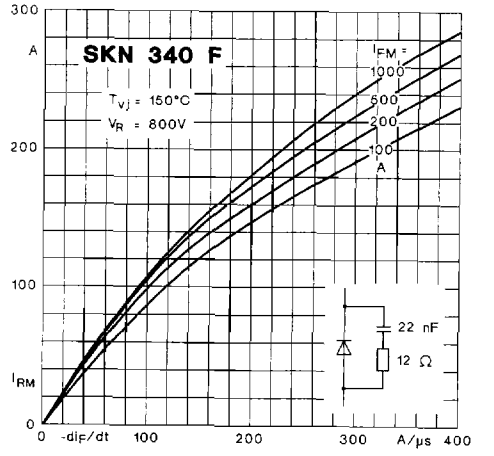


Fig. 6 a Peak reverse recovery current

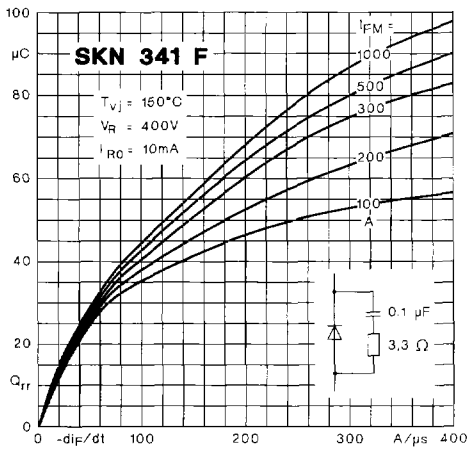


Fig. 5 b Recovered charge

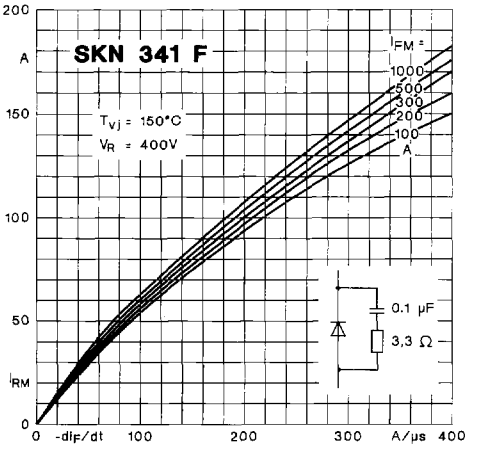


Fig. 6 b Peak reverse recovery current

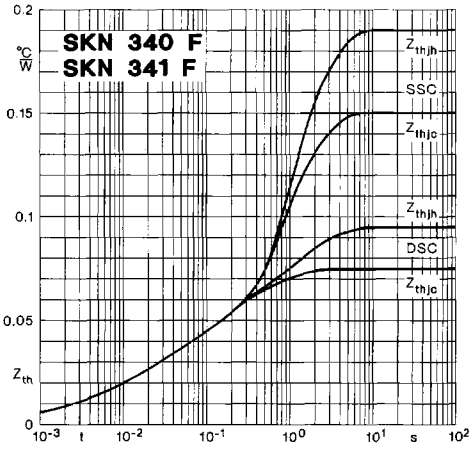


Fig. 7 Transient thermal impedance

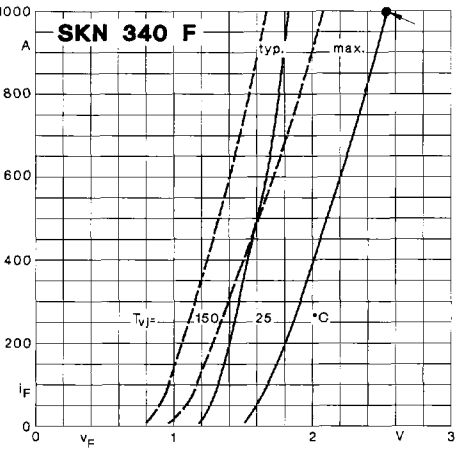


Fig. 8 a Forward characteristics

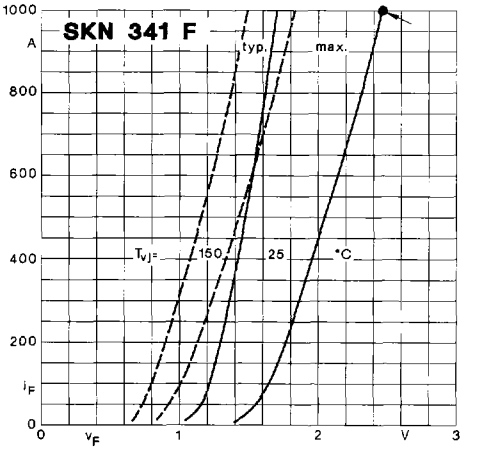


Fig. 8 b Forward characteristics

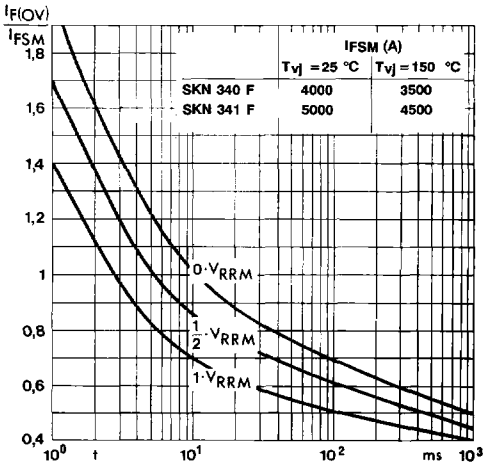
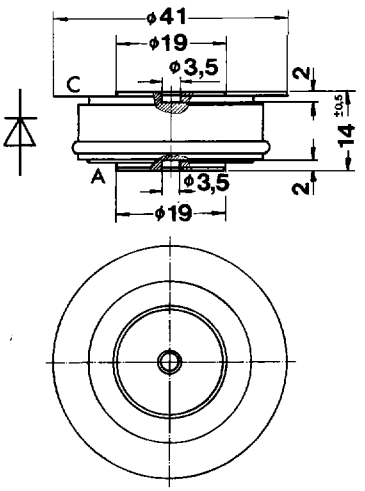


Fig. 9 Rated surge overload current

SKN 340 F
SKN 341 F

Case E 18

DIN 41 814: 151 A 2
JEDEC: DO-200 AA



Dimensions in mm