

V _{RRM}	I _F RMS (maximum values for continuous operation)			
	41 A			
	I _{FAV} (sin. 180; T _{case} = 85 °C) 26 A			
V	t _{rr} = 150 ns		t _{rr} = 250 ns	
	木	干	木	干
400	SKN 2F17/04 SKN 2F17/04UNF	SKR 2F17/04 SKR 2F17/04UNF	-	-
600	SKN 2F17/06 SKN 2F17/06UNF	SKR 2F17/06 SKR 2F17/06UNF	-	-
800	SKN 2F17/08 SKN 2F17/08UNF	SKR 2F17/08 SKR 2F17/08UNF	SKN 3F20/08 SKN 3F20/08UNF	SKR 3F20/08 SKR 3F20/08UNF
1000	SKN 2F17/10 SKN 2F17/10UNF	SKR 2F17/10 SKR 2F17/10UNF	SKN 3F20/10 SKN 3F20/10UNF	SKR 3F20/10 SKR 3F20/10UNF
1200	- -	- -	SKN 3F20/12 SKN 3F20/12UNF	SKR 3F20/12 SKR 3F20/12UNF

Fast Recovery Rectifier Diodes

SKN 2 F 17 SKR 2 F 17
SKN 3 F 20 SKR 3 F 20



Symbol	Conditions	SKN 2 F 17 SKR 2 F 17	SKN 3 F 20 SKR 3 F 20	Units
I _{FAV}	sin.180; T _{case} = 85 °C; f=5000 Hz = 104 °C = 113 °C sin.180/rec.120; T _{amb} = 5 °C; K9 K5	26 - 17 6,7 / 6,5 10/9,5	26 20 - A A A	A
I _{FSM}	T _{VJ} = 25 °C; 10 ms	450	375	A
i ² t	T _{VJ} = 150 °C; 10 ms	380	310	A
	T _{VJ} = 25 °C; 8,3 ... 10 ms	1000	700	A ² s
	T _{VJ} = 150 °C; 8,3 ... 10 ms	720	480	A ² s
Q _{rr}	T _{VJ} = 130 °C; I _F = 50 A;	1,0	1,5	μC
I _{RM}	$\int -\frac{dI_F}{dt} = 15 \frac{A}{\mu s}$; V _R = 30 V	4,5	5	A
I _R	T _{VJ} = 25 °C; V _R = V _{RRM}	max. 0,2	max. 0,2	mA
	T _{VJ} = 130 °C; V _R = V _{RRM}	max. 16	max. 20	mA
t _{rr}	T _{VJ} = 25 °C T _{VJ} = 130 °C	I _F = I _R = 1 A	max. 150 typ. 300	ns ns
V _F	T _{VJ} = 25 °C; I _F = 50 A	max. 2,15	V	
V _(TO)	T _{VJ} = 130 °C	1,3	V	
r _T	T _{VJ} = 130 °C	12	mΩ	
R _{thjc}		1,2	°C/W	
R _{thch}		0,5	°C/W	
T _{VJ}		- 40 ... + 150	°C	
T _{stg}		- 55 ... + 150	°C	
M	SI units US units	1,5 13	Nm lb.in.	
a		5 · 9,81	m/s ²	
w		7	g	
Case		E7		

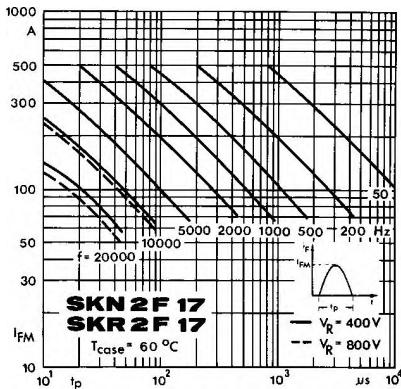


Fig. 1 a Rated sinusoidal peak forward current

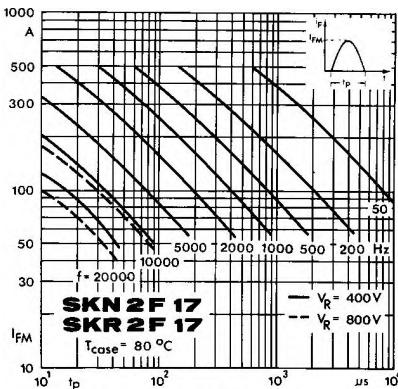


Fig. 1 b Rated sinusoidal peak forward current

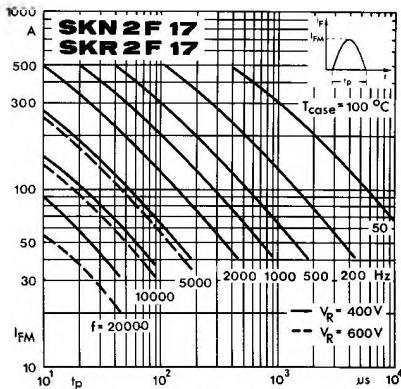


Fig. 1 c Rated sinusoidal peak forward current

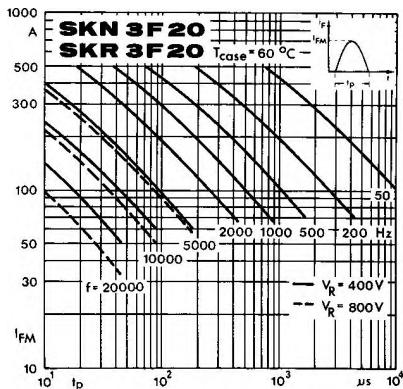


Fig. 1 d Rated sinusoidal peak forward current

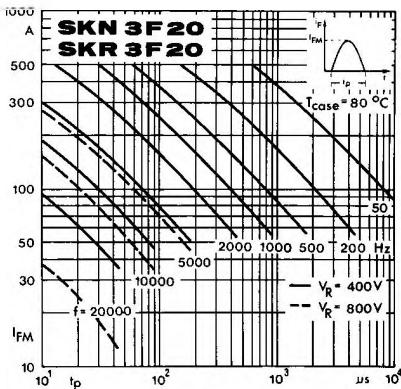


Fig. 1 e Rated sinusoidal peak forward current

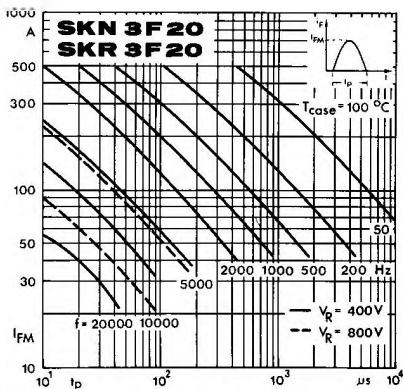


Fig. 1 f Rated sinusoidal peak forward current

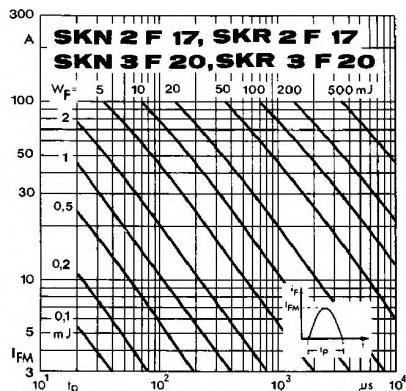


Fig. 2 Forward energy dissipation, sinusoidal

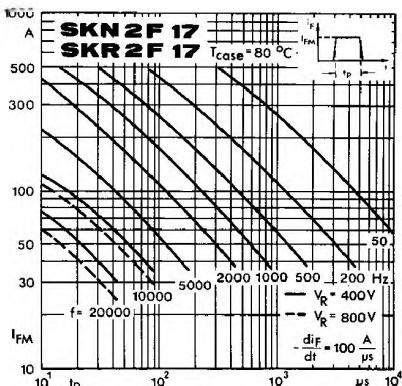


Fig. 3 b Rated rectangular peak forward current

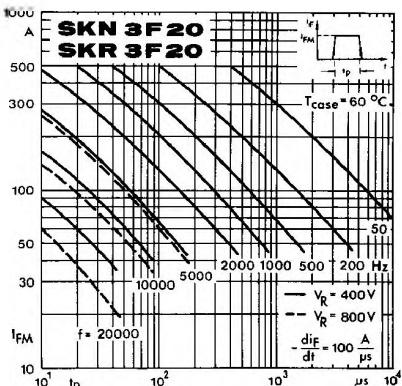


Fig. 3 d Rated rectangular peak forward current

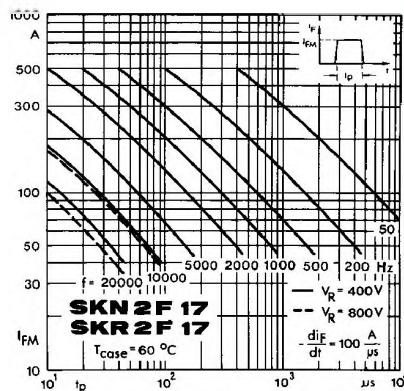


Fig. 3 a Rated rectangular peak forward current

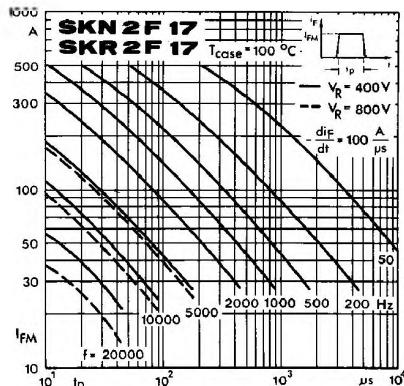


Fig. 3 c Rated rectangular peak forward current

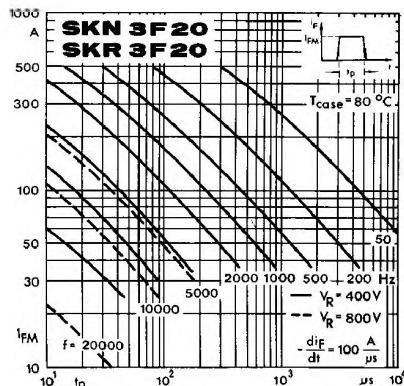


Fig. 3 e Rated rectangular peak forward current

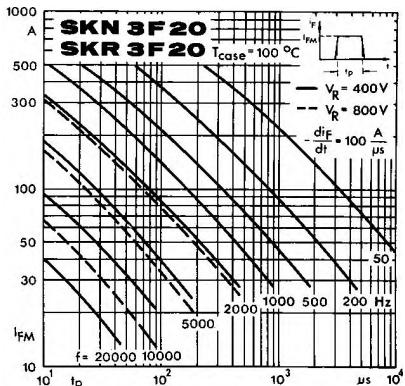


Fig. 3 f Rated rectangular peak forward current

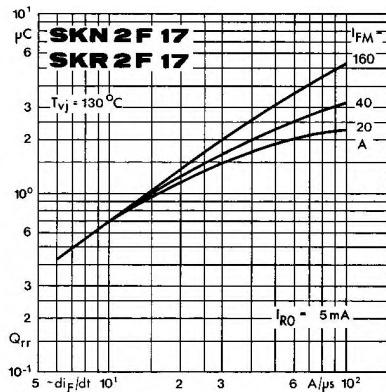


Fig. 5 a Recovered charge

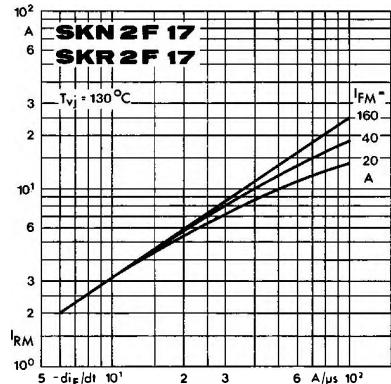


Fig. 6 a Peak reverse recovery current

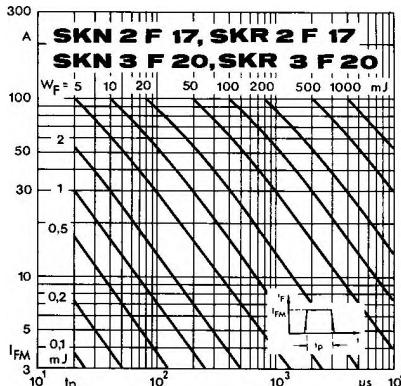


Fig. 4 Forward energy dissipation, rectangular

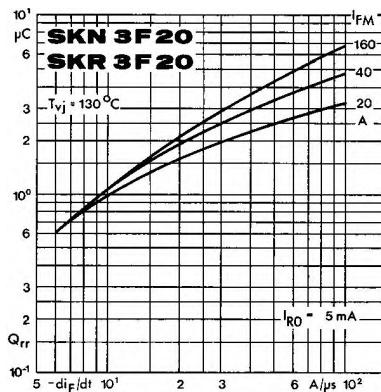


Fig. 5 b Recovered charge

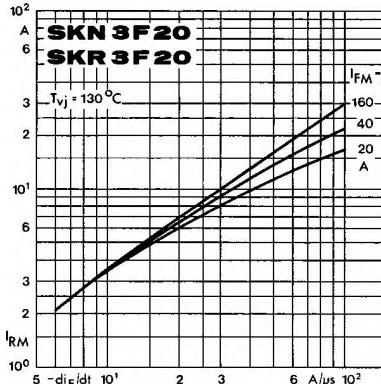


Fig. 6 b Peak reverse recovery current

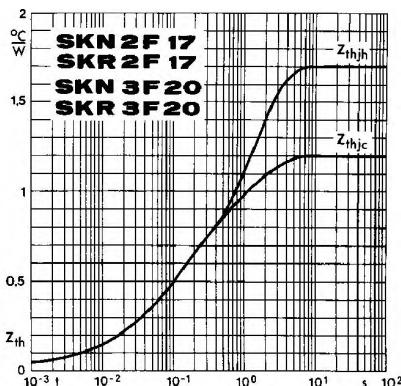


Fig. 7 Transient thermal impedance

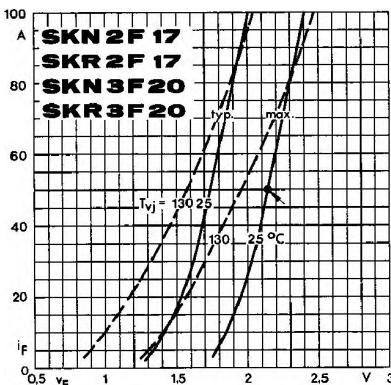


Fig. 8 Forward characteristics

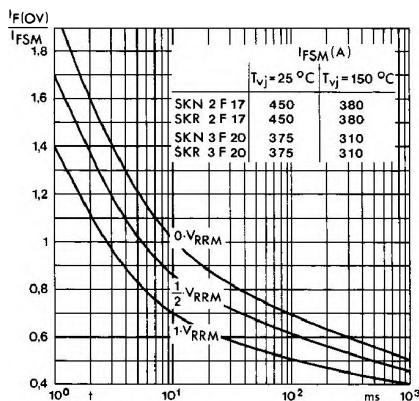
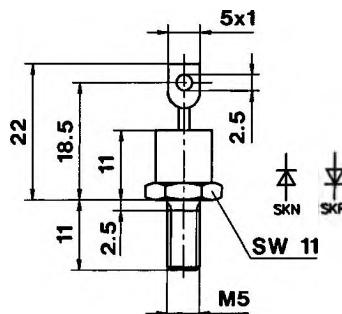


Fig. 9 Rated surge overload current

SKN 2 F 17
SKR 2 F 17
SKN 3 F 20
SKR 3 F 20

Case E 7

IEC-Publ. 191-2: A 3 M
DIN 41 885: 101 C 2
BS 3934: SO-10
JEDEC: DO-203 AA (DO-4) metric

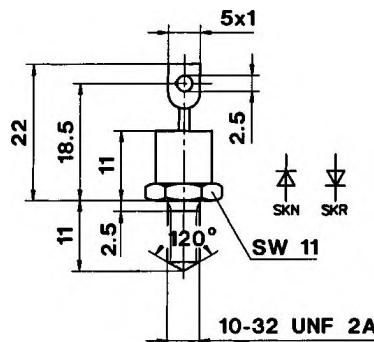


Dimensions in mm

SKN 2 F 17 . . . UNF
SKR 2 F 17 . . . UNF
SKN 3 F 20 . . . UNF
SKR 3 F 20 . . . UNF

Case E 7 UNF

IEC-Publ. 191-2: A 3 U
BS 3934: SO-10
JEDEC: DO-203 AA (DO-4)



Dimensions in mm