

T-03-15

V_{RSM} V_{RRM}	IFRMS (maximum values for continuous operation) 10 A		
	IFAV (sin. 180; Tamb = 45 °C) 2 A		
V	$t_{rr} = 0,2 \mu s$		$t_{rr} = 0,4 \mu s$
100	SKE2F2/01	SKE4F2/01	-
200	SKE2F2/02	SKE4F2/02	SKE4G2/02
400	SKE2F2/04	SKE4F2/04	SKE4G2/04
600	SKE2F2/06	SKE4F2/06	SKE4G2/06
800	-	SKE4F2/08	-
1000	-	SKE4F2/10	-

Fast Recovery Rectifier Diodes

SKE2F2
SKE4F2
SKE4G2



Symbol	Conditions	SKE2F2	SKE4F2 SKE4G2	Units
IFAV	sin. 180; Tamb = 45 °C; f = 1000 Hz	2		A
IFSM	Tvj = 25 °C	230		A
	Tvj = 130 °C	200		A
i ² t	Tvj = 25 °C	265		A ² s
	Tvj = 130 °C	200		A ² s
Qrr	Tvj = 130 °C; - $\frac{dI_F}{dt} = 10 \frac{A}{\mu s}$; IFM = 2 A	typ. 0,2	typ. 0,44	μC
	Tvj = 25 °C; VR = VRRM	20 (01, 02) 4 (04, 06) 1	20 (01, 02) 4 (04...10) 1	μA μA mA
trr	Tvj = 130 °C; VR = VRRM			
	Tvj = 25 °C	max. 0,15 ¹⁾ max. 0,25 ²⁾	max. 0,20 ¹⁾ max. 0,45 ²⁾	μs μs
tf	Tvj = 130 °C	typ. 0,4 ²⁾	typ. 0,8 ²⁾	μs
	Tvj = 25 °C	-	min. 0,16 ³⁾	μs
VF	Tvj = 25 °C; IF = 10 A	max. 1,25		V
V(TO)	Tvj = 130 °C	1,0		V
rT	Tvj = 130 °C	20		m Ω
Rthja		typ. 40		°C/W
Tvj		-40... + 130		°C
Tstg		-40... + 150		°C
a		5·9,81		m/s ²
w	approx.	2		g
Case		E4		

Features

- Small recovered charge
- Soft recovery
- SKE4G2 with specified fall time
- Up to 1000 V reverse voltage
- Radial leads for 10 mm pitch
- Polarity indicated by oblique edge

Typical Applications

- Switching diodes for SMPS
- TV sets
- Inverters
- Ultrasonic generators

¹⁾ IF = 0,5 A; IR = 1 A; irr = 0,25 A

²⁾ IF = 1 A; IR = 1 A; irr = 0,2 A

³⁾ Only for SKE4G2

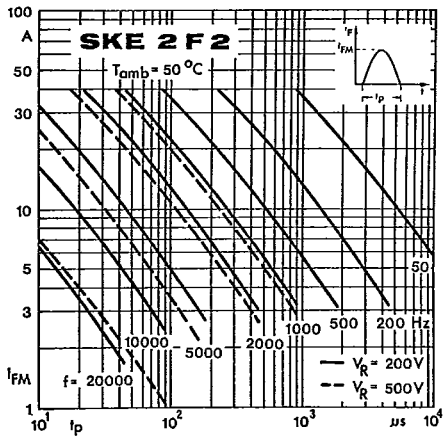


Fig. 1 a Rated sinusoidal peak forward current

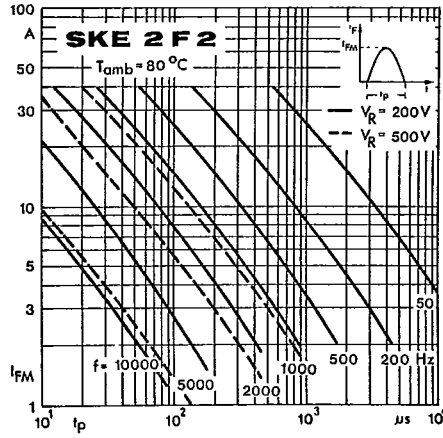


Fig. 1 b Rated sinusoidal peak forward current

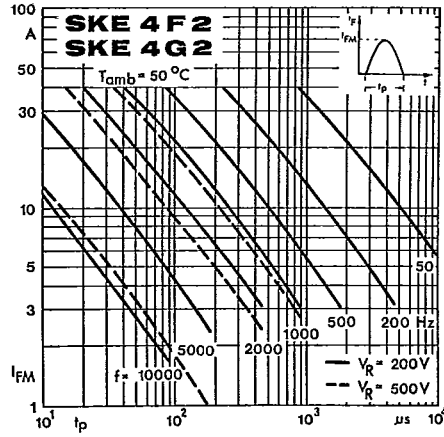


Fig. 1 c Rated sinusoidal peak forward current

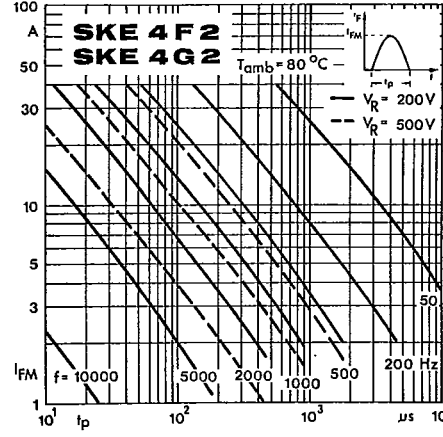


Fig. 1 d Rated sinusoidal peak forward current

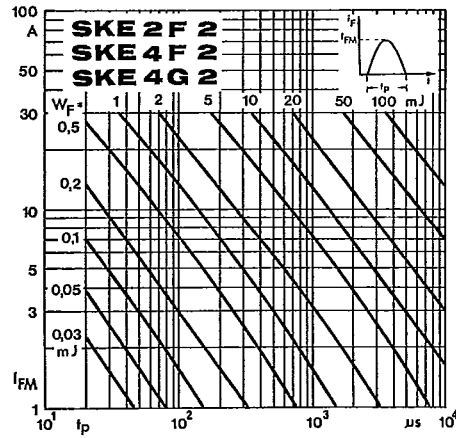


Fig. 2 Forward energy dissipation, sinusoidal

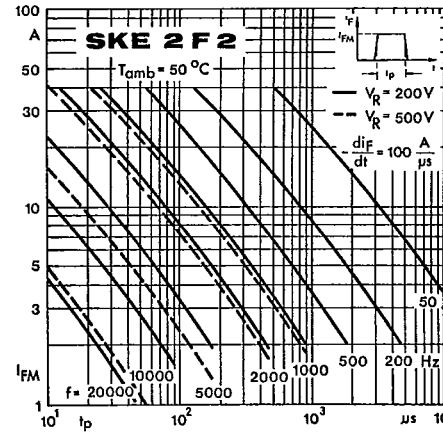


Fig. 3 a Rated rectangular peak forward current

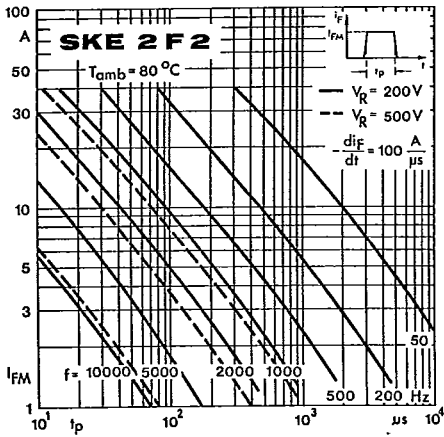


Fig. 3 b Rated rectangular peak forward current

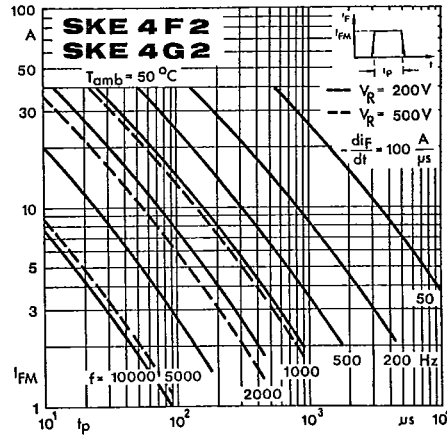


Fig. 3 c Rated rectangular peak forward current

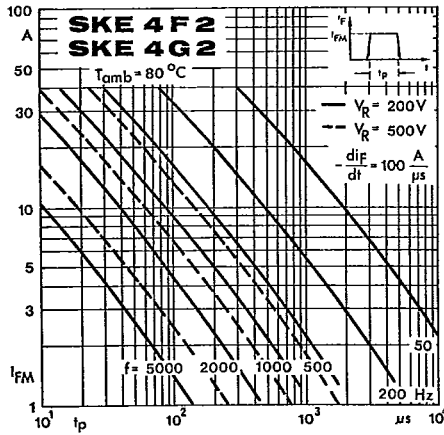


Fig. 3 d Rated rectangular peak forward current

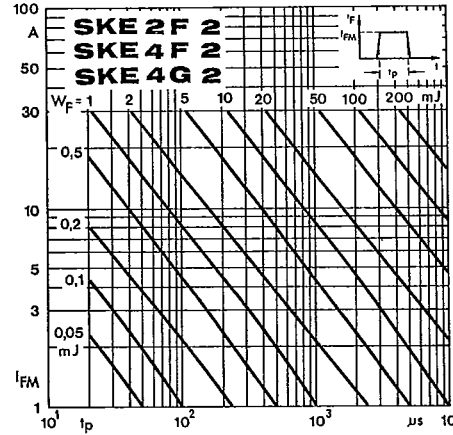


Fig. 4 Forward energy dissipation, rectangular

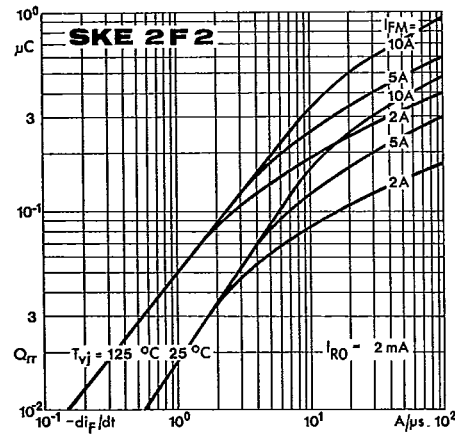


Fig. 5 a Recovered charge

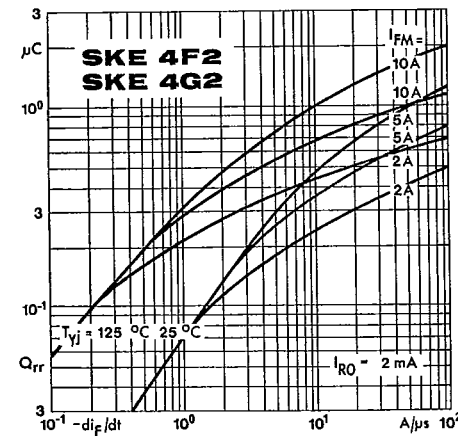


Fig. 5 b Recovered charge

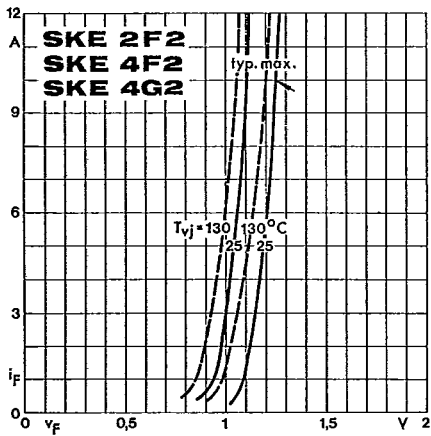


Fig 8 Forward characteristics

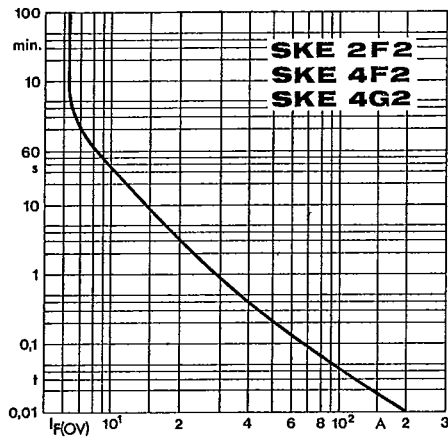


Fig. 11 Rated surge overload current

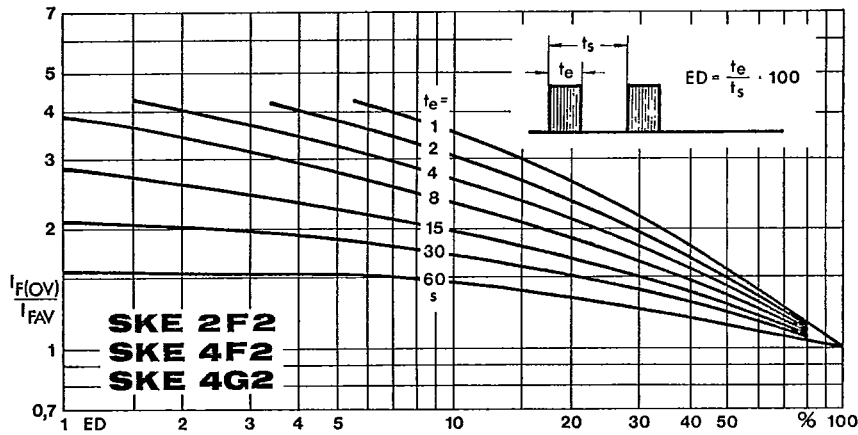


Fig. 10 Intermittent duty overload current

