

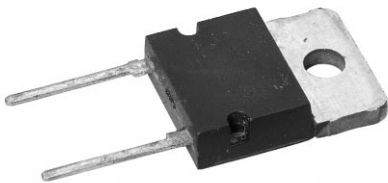
V _{RSM}	I _{FRMS} (maximum values for continuous operation)
V _{RRM}	
V	
600	SKR 67F06

Fast Recovery Rectifier Diodes ¹⁾

SKR 67 F

Preliminary Data

Symbol	Conditions	SKR67F	Units
I _{FAV}	sin. 180; T _{case} = 85 °C	67	A
I _{FSM}	T _{vj} = 25 °C; 10 ms	650	A
i ² t	T _{vj} = 150 °C; 10 ms	580	A
	T _{vj} = 25 °C; 8,3 ... 10 ms	2100	A ² s
	T _{vj} = 150 °C; 8,3 ... 10 ms	1700	A ² s
I _{RRM}	T _{vj} = 25 °C } I _F = 75 A	30	A
Q _{rr}	T _{vj} = 125 °C } di/dt = 800 A/μs	53	A
	T _{vj} = 25 °C } typ.	2,5	μC
	T _{vj} = 125 °C } V _R = 300 V typ.	6	μC
t _{rr}	T _{vj} = 25 °C } typ.	60	ns
I _R	T _{vj} = 25 °C; V _R = V _{RRM}	0,2	mA
	T _{vj} = 125 °C; V _R = V _{RRM}	4	mA
V _F	T _{vj} = 25 °C; I _F = 75 A max	1,7	V
V _(TO)	T _{vj} = 150 °C	0,9	V
r _T	T _{vj} = 150 °C	11	mΩ
R _{thjc}	to heatsink SI units US units	0,35	°C/W
R _{thch}		0,25	°C/W
T _{vj}		– 40 ... 150	°C
T _{stg}		– 40 ... 150	°C
M ₁		0,7 ... 1	Nm
		6,2 ... 8,8	lb.in.
w	approx	5	g
Case	→ page B 9 – 6	E 40	



Features

- Very short recovery times
- Soft recovery under all conditions
- 600 V reverse voltage
- Epoxy meets UL 94V-0 flammability classification

Typical Applications

- Inverse diode for power transistors
- Inverter, UPS
- Snubber and clamping diode

¹⁾ CAL (controlled axial lifetime) technology, patent No. DE 43 10 44

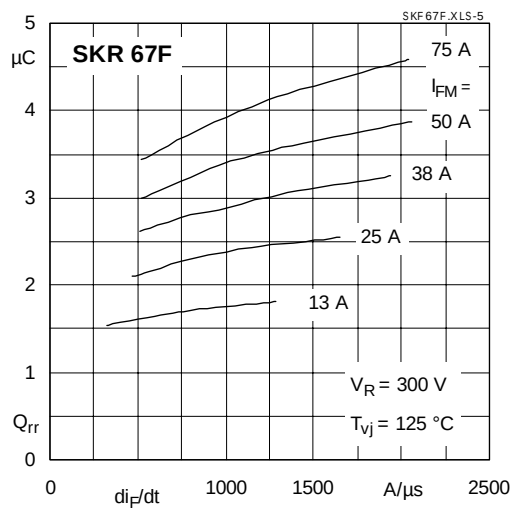


Fig. 5 Typ. recovered charge

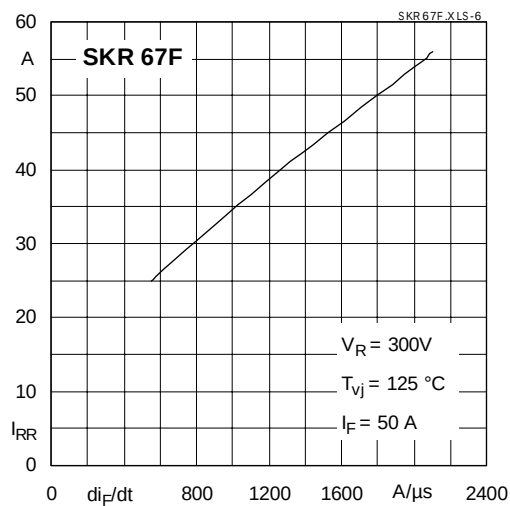


Fig. 6 Typ. peak reverse recovery current

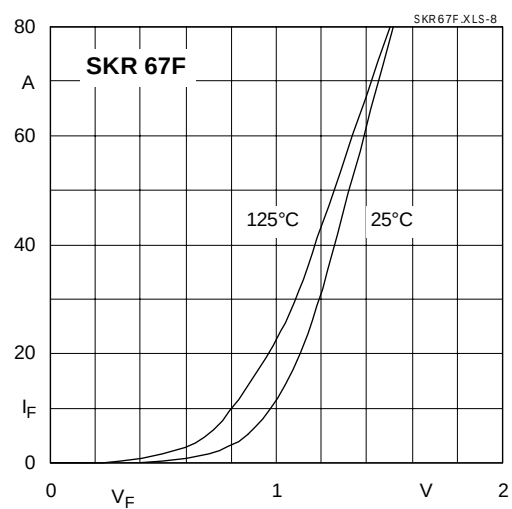


Fig. 8 Typ. forward characteristic

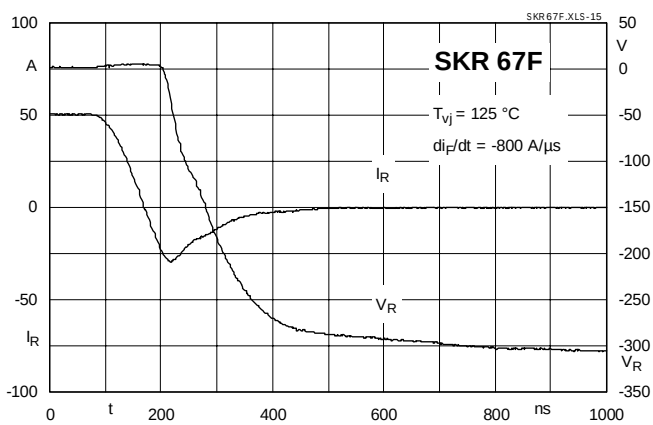
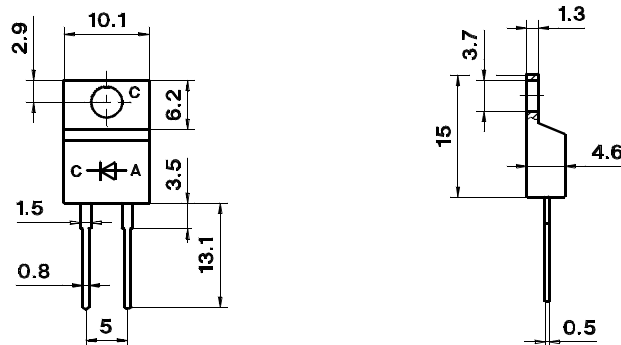


Fig. 15 Typ. reverse recovery characteristic

SKR 20 F

Case E 39

TO-220 AC

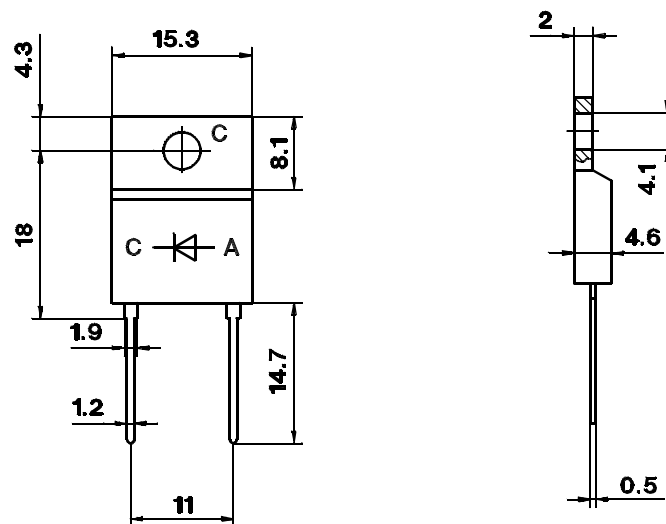


SKR 31 F

SKR 48 F

Case E 40

TO-218



Dimensions in mm