SKR 20F



Fast Recovery Rectifier Diode

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Features

- CAL-Diode (controlled axial lifetime technology), patent no. DE 431044
- Very short recovery timeSoft recovery under all conditions
- Up to 1200 V reverse voltage
- Epoxy meets UL 94V-0 flammability classification

Typical Applications

- Inverse diode for power transistors
- Inverter
- Power supply
- Snubber and clamping diode

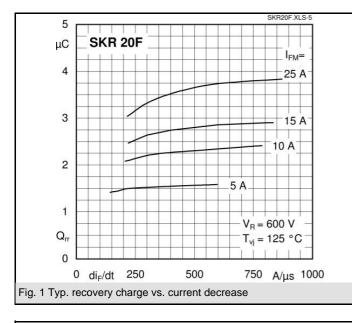
V _{RSM}	V _{RRM}	I _{FRMS} = 30 A (maximum value for continuous operation)		
V	V	I _{FAV} = 20 A (sin. 180; 50 Hz; T _c = 85 °C)		
1000	1000	SKR 20F10		
1200	1200	SKR 20F12		

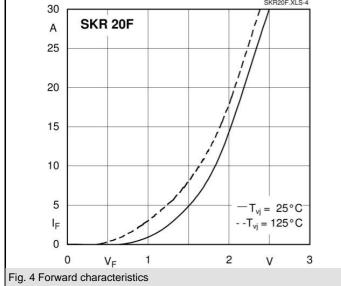
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	20 (17)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	150	A
	T _{vi} = 150 °C; 10 ms	140	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	110	A²s
	T _{vj} = 150 °C; 8,3 10 ms	100	A²s
V _F	T _{vi} = 25 °C; I _F = 15 A	max. 2,5	V
V _(TO)	T _{vi} = 150 °C	max. 1,2	V
r _T	T _{vi} = 150 °C	max. 70	mΩ
I _{RD}	T_{vj}^{3} = 25 °C; V_{RD} = V_{RRM}	max. 0,1	mA
I _{RD}	T _{vj} = 125 °C; V _{RD} = V _{RRM}	max. 2	mA
Q _{rr}	T _{vj} = 125 °C, I _F = 15 A,	2,7	μC
I _{RM}	-di/dt = 400 A/µs, V _R = 600 V	16	А
t _{rr}		380	ns
E _{rr}		-	mJ
R _{th(j-c)}		0,7	K/W
R _{th(c-s)}		0,3	K/W
T _{vj} `´		- 40 150	°C
T _{stg}		- 40 150	°C
V _{isol}		-	٧~
M _s	to heatsink	0,55 0,8	Nm
а			m/s²
m	approx.	2	g
Case		E 39	

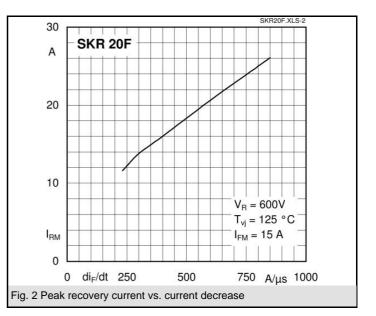


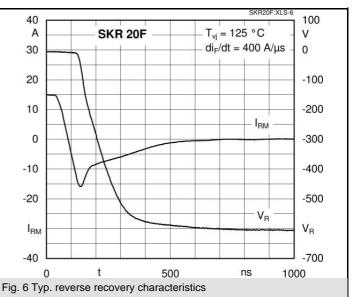
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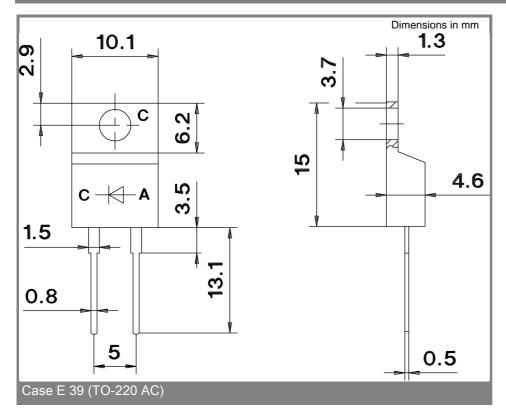








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