SKN 141F



Stud Diode

Fast Recovery Rectifier Diode

SKN 141F SKR 141F

Features

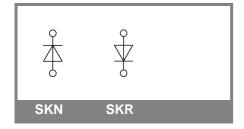
- Small recovered charge
- Soft recovery
- Hermetic metal case with glass insulator
- Threaded stud M12
- SKN: anode to stud;
 SKR: cathode to stud

Typical Applications

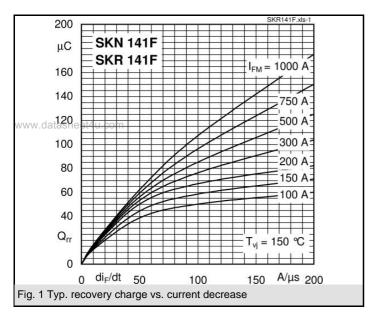
- Inverse diode for GTO and asymmetric thyristor
- Inverters and choppers
- A.C. motor control
- Uniterruptible power supplies (UPS)

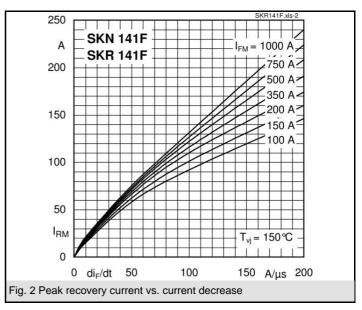
V_{RSM}	V_{RRM}	I _{FRMS} = 260 A (maximum value for continuous operation)		
V	V	I _{FAV} = 140 A (sin. 180; 1000 Hz; T _c = 100 °C)		
1200	1200	SKN 141F12	SKR 141F12	
1400	1400	SKN 141F14	SKR 141F14	
1500	1500	SKN 141F15	SKR 141F15	
1700	1700	SKN 141F17	SKR 141F17	

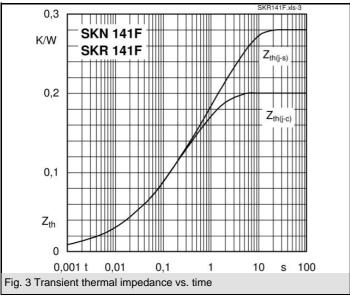
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	168 (140)	Α
I_{FAV}	K1,1F; T _a = 35 °C; sin. 180; 1000 Hz	114	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	2500	Α
	$T_{vi} = 150 ^{\circ}\text{C}$; 10 ms	2100	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	31000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	22000	A²s
V _F	T _{vi} = 25 °C; I _F = 300 A	max. 1,8	V
$V_{(TO)}$	T _{vj} = 150 °C	max. 1,1	V
r _T	T _{vi} = 150 °C	max. 2	mΩ
I_{RD}	$T_{vj} = 25 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	max. 1	mA
I_{RD}	T_{vj} = 150 °C, V_{RD} = V_{RRM}	max. 100	mA
Q _{rr}	T _{vi} = 150 °C, I _F = 100 A,	90	μC
I_{RM}	-di/dt = 100 A/μs, V _R = 400 V	90	Α
t _{rr}		2000	ns
E _{rr}		-	mJ
R _{th(j-c)}		0,2	K/W
R _{th(c-s)}		0,08	K/W
T _{vj}		- 40 + 150	°C
T _{stg}		- 55 + 150	°C
V _{isol}		-	V~
M_s	to heatsink	10	Nm
а		5 * 9,81	m/s²
m	approx.	100	g
Case		E 31	

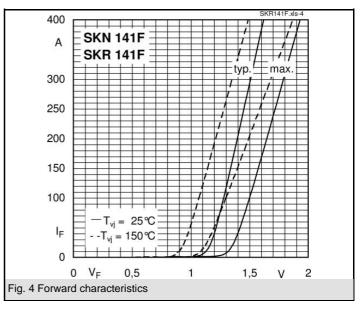


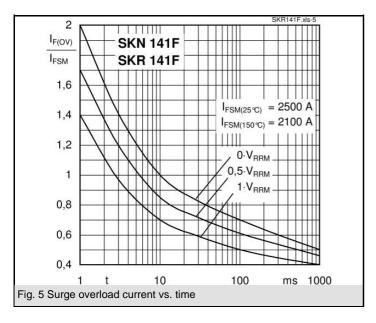
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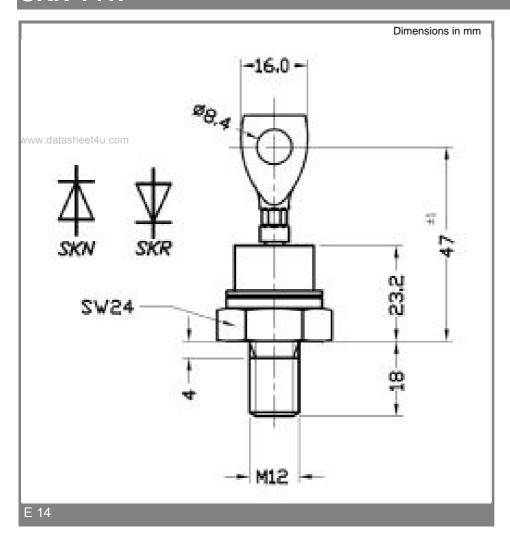








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