



Stud Diode

Avalanche Diode

SKNa 47

Publish Data

Features

- Avalanche type reverse characteristic
- Reverse voltages up to 5000 V
- Hermetic metal case with ceramic insulator and extra long creepage distances
- Threaded stud ISO M8
- Cooling via heatsinks
- SKN: Anode to stud

Typical Applications

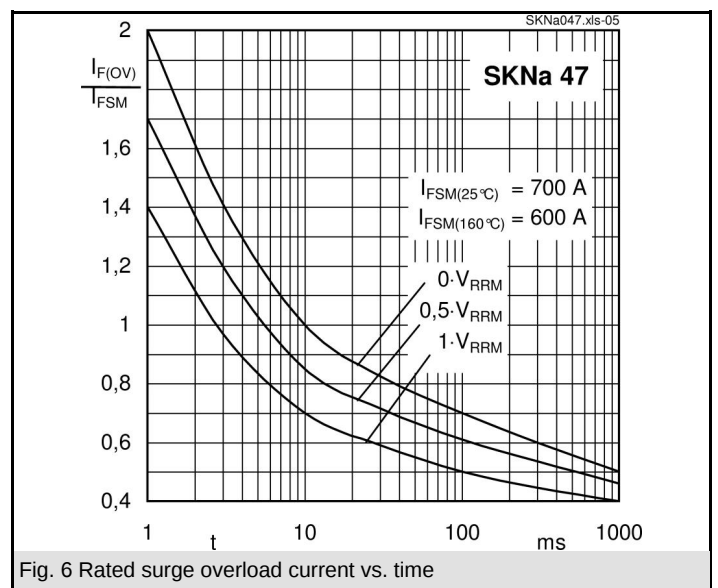
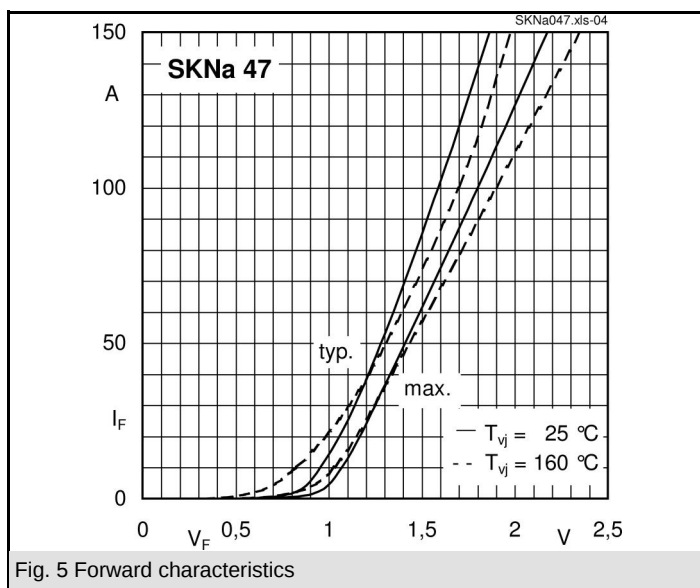
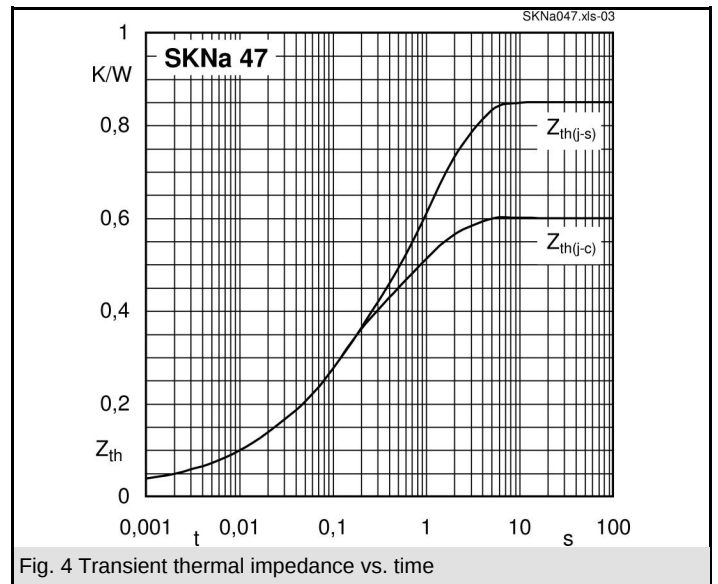
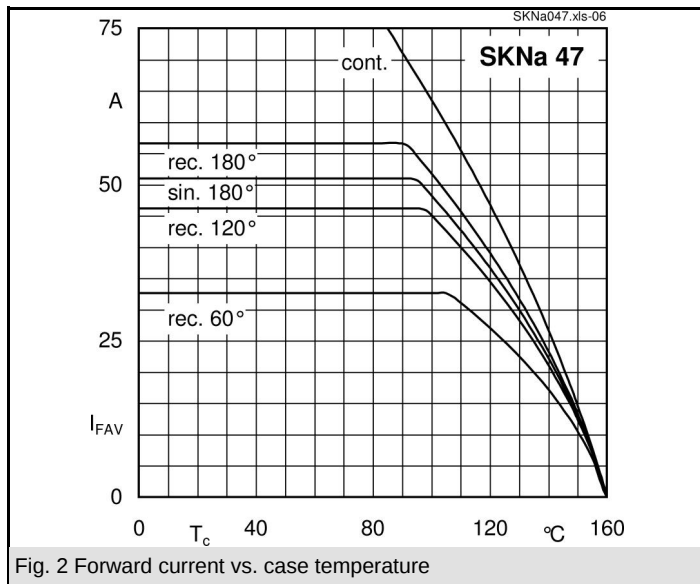
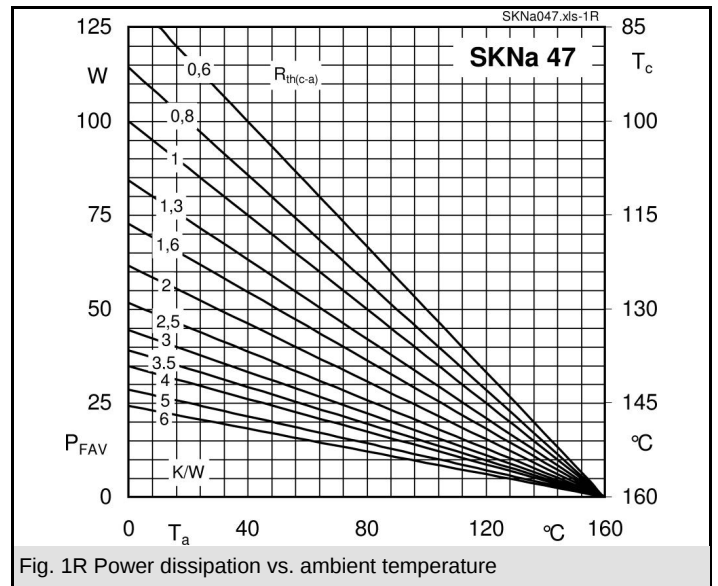
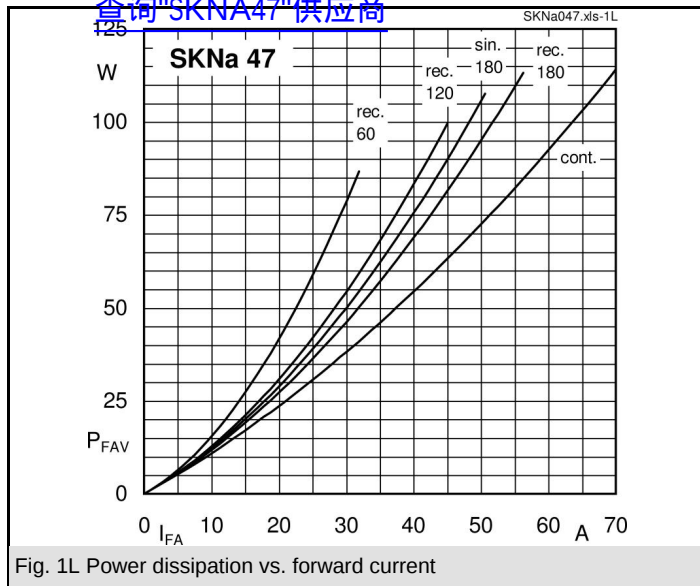
- High voltage rectifier diode for heavy duty applications
- Series connections for high voltage equipments like dust precipitators and high voltage power supplies
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes



$V_{(BR)min}$	$I_{FRMS} = 80\text{ A}$ (maximum value for continuous operation)	C_{max}	R_{min}
V	$I_{FAV} = 45\text{ A (sin. 180; } T_c = 106\text{ °C)}$	μF	Ω
3600	SKNa 47/36		
4000	SKNa 47/40		
4200	SKNa 47/42		
4500	SKNa 47/45		
4600	SKNa 47/46		
4800	SKNa 47/48		
5000	SKNa 47/50		

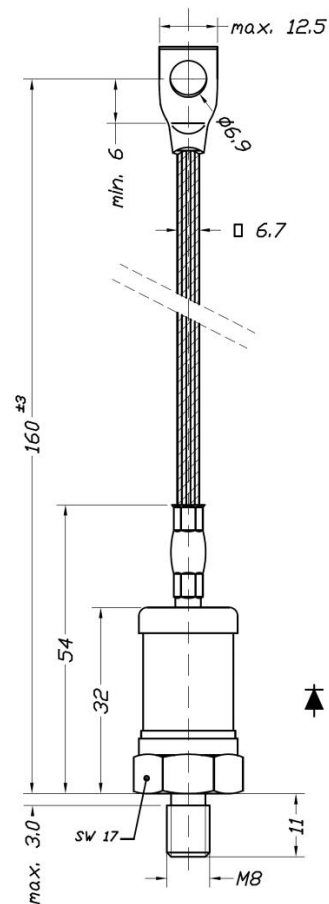
Symbol	Conditions	Values	Units
I_{FAV}	sin. 180 ; $T_c = 96\text{ (106) °C}$	50 (45)	A
I_D	K 5; $T_a = 45\text{ °C}$; B2 / B6 K 1,1; $T_a = 45\text{ °C}$; B2 / B6	32 / 47 68 / 96	A A
I_{FSM}	$T_{vj} = 25\text{ °C}$; 10 ms $T_{vj} = 160\text{ °C}$; 10 ms	700 600	A A
i^2t	$T_{vj} = 25\text{ °C}$; 8,3 ... 10 ms $T_{vj} = 160\text{ °C}$; 8,3 ... 10 ms	2500 1800	A ² s A ² s
V_F	$T_{vj} = 25\text{ °C}$; $I_F = 100\text{ A}$	max. 1,8	V
$V_{(TO)}$	$T_{vj} = 150\text{ °C}$	max. 1	V
r_T	$T_{vj} = 150\text{ °C}$	max. 9	m Ω
I_{RD}	$T_{vj} = 25\text{ °C}$; $V_{RD} = V_{(BR)min}$ $T_{vj} = 160\text{ °C}$; $V_{RD} = V_{(BR)min}$;	max. 600 max. 10	μA mA
P_{RSM}	$T_{vj} = 160\text{ °C}$; $t_p = 10\text{ }\mu\text{s}$	20	kW
$R_{th(j-c)}$		0,6	K/W
$R_{th(c-s)}$		0,25	K/W
T_{vj}		- 40 ... + 160	°C
T_{stg}		- 40 ... + 160	°C
V_{isol}		-	V~
M_s	to heatsink	4 35	Nm lb.in.
a		5 * 9,81	m/s ²
m	approx.	45	g
Case		E 43	

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Dimensions in mm



CASE E 43 (IEC 60191: A 16 U modified)

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