

SKN 5



Stud Diode

Rectifier Diode

SKN 5

Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Anode side threaded stud ISO M4
- SKN: anode to stud
- With integrated cooling fins

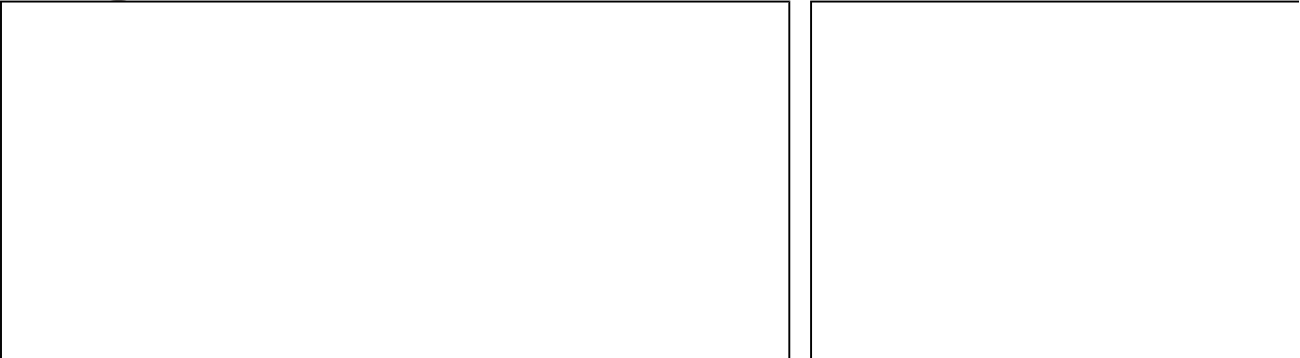
Typical Applications

- All-purpose rectifier diodes
- For severe ambient conditions
- Recommended snubber network:
RC: 0,02 µF, 500 Ω ($P_R = 1\text{ W}$)
 $R_P = 270\text{ k}\Omega$ ($P_R = 2\text{ W}$)



V_{RSM} V	V_{RRM} V	$I_{FRMS} = 10\text{ A}$ (maximum value for t_F) $I_{FAV} = 5\text{ A}$ (sin. 180; T_a)
200	200	SKN 5/02
400	400	SKN 5/04
800	800	SKN 5/08
1200	1200	SKN 5/12
1600	1600	SKN 5/16
Symbol	Conditions	
I_{FAV}	sin. 180; $T_a = 45\text{ }^{\circ}\text{C}$	
I_{FSM}	$T_{vj} = 25\text{ }^{\circ}\text{C}$; 10 ms	
i^2t	$T_{vj} = 180\text{ }^{\circ}\text{C}$; 10 ms	
	$T_{vj} = 25\text{ }^{\circ}\text{C}$; 8,3 ... 10 ms	
	$T_{vj} = 180\text{ }^{\circ}\text{C}$; 8,3 ... 10 ms	
V_F	$T_{vj} = 25\text{ }^{\circ}\text{C}$; $I_F = 15\text{ A}$	
$V_{(TO)}$	$T_{vj} = 180\text{ }^{\circ}\text{C}$	
r_T	$T_{vj} = 180\text{ }^{\circ}\text{C}$	
I_{RD}	$T_{vj} = 180\text{ }^{\circ}\text{C}$; $V_{RD} = V_{RRM}$	
Q_{rr}	$T_{vj} = 160\text{ }^{\circ}\text{C}$; $-di_F/dt = 10\text{ A}/\mu\text{s}$	
$R_{th(j-c)}$		
$R_{th(j-a)}$		
T_{vj}		
T_{stg}		
V_{isol}	to heatsink	
M_s		
a	approx.	
m		
Case		

Diagrams



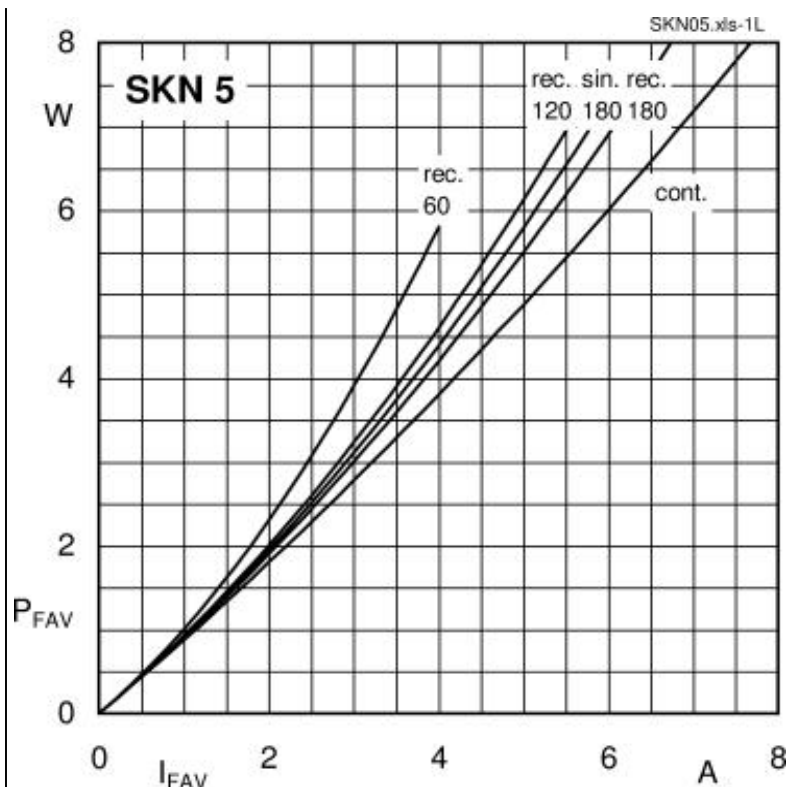


Fig. 1 Power dissipation vs. forward current

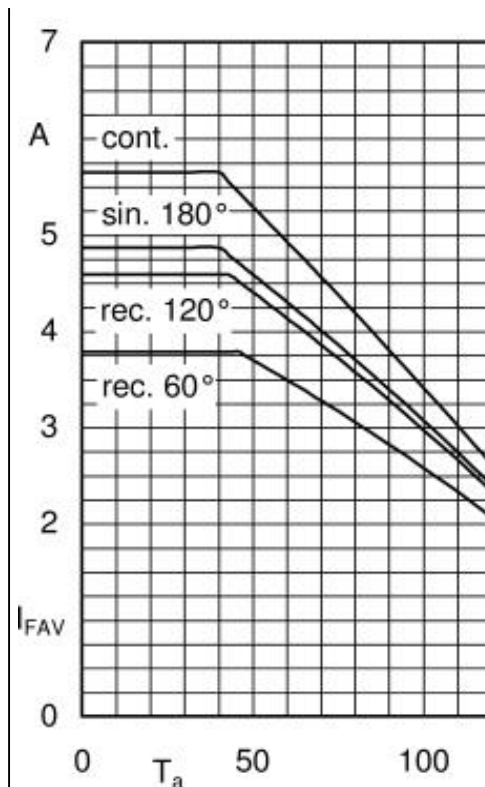


Fig. 4 Forward current vs. ambient temperature

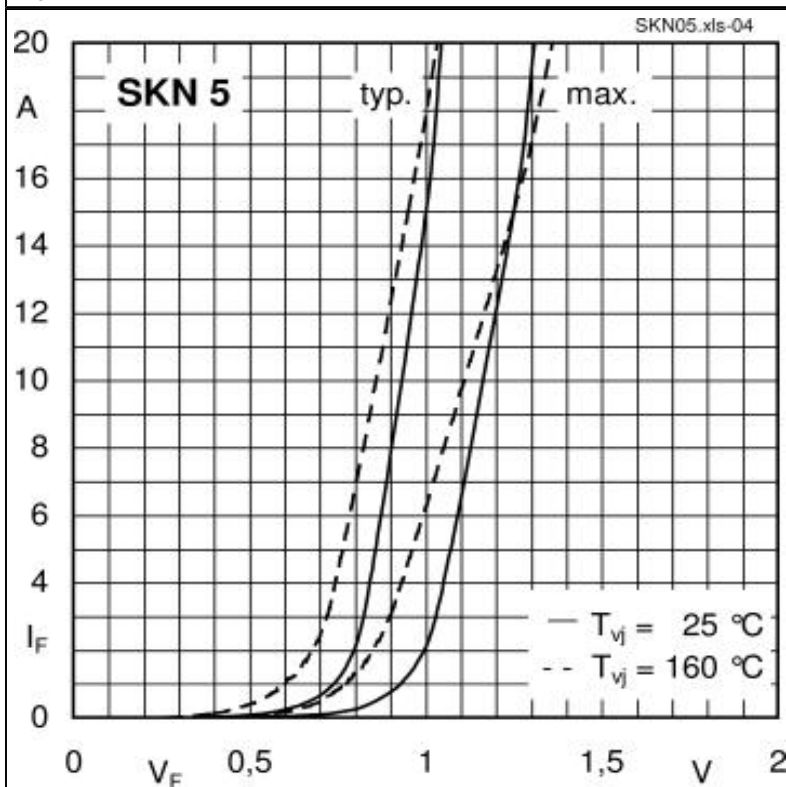


Fig. 5 Forward characteristics

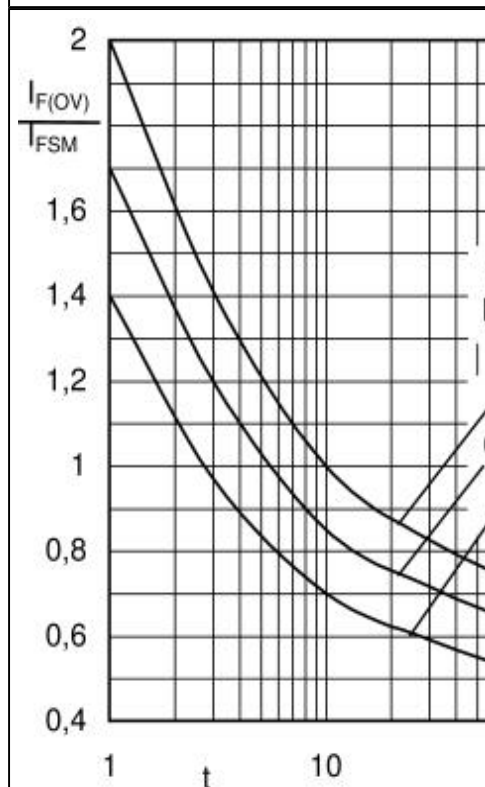
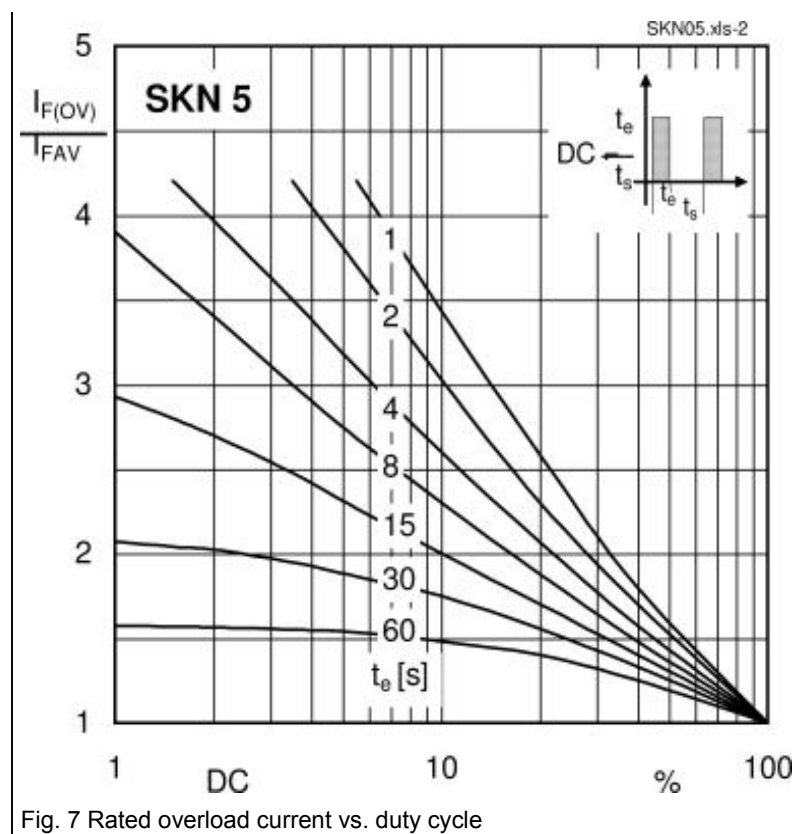
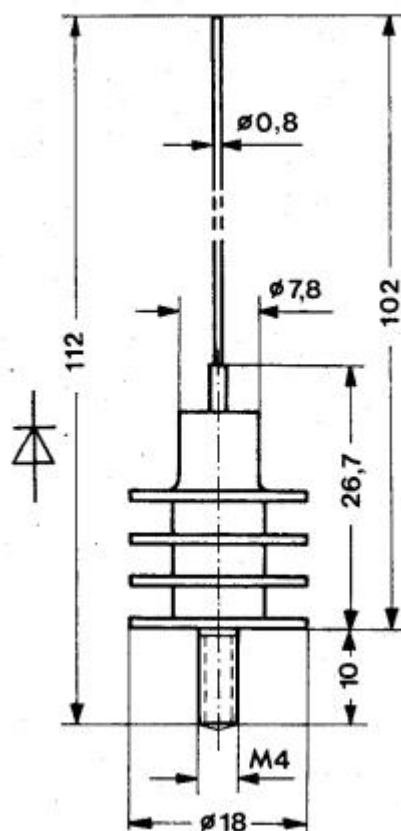


Fig. 6 Surge overload current vs. time



Cases / Circuits



Case E 6
