

## Stud Diode

## Rectifier Diode

### SKN 2,5

#### Features

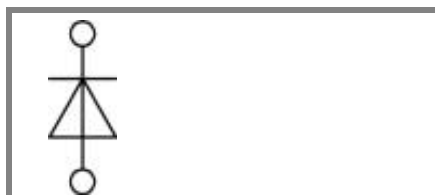
- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Anode side threaded stud ISO M4 (with lead wire in addition)
- SKN: anode to stud

#### Typical Applications

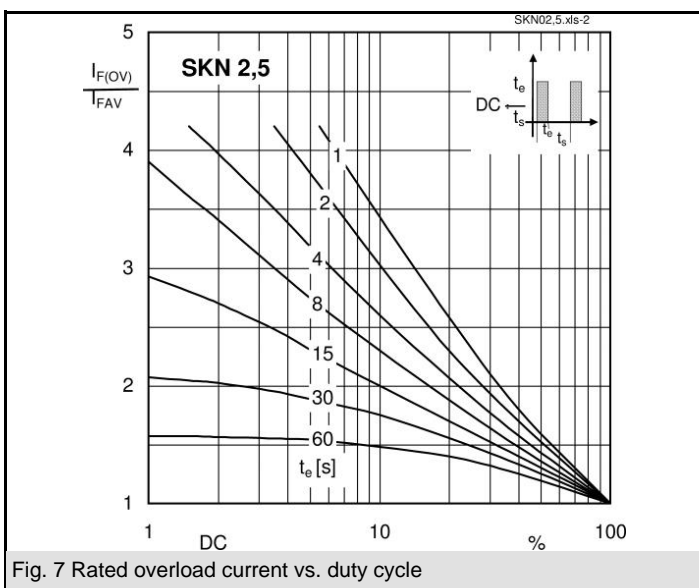
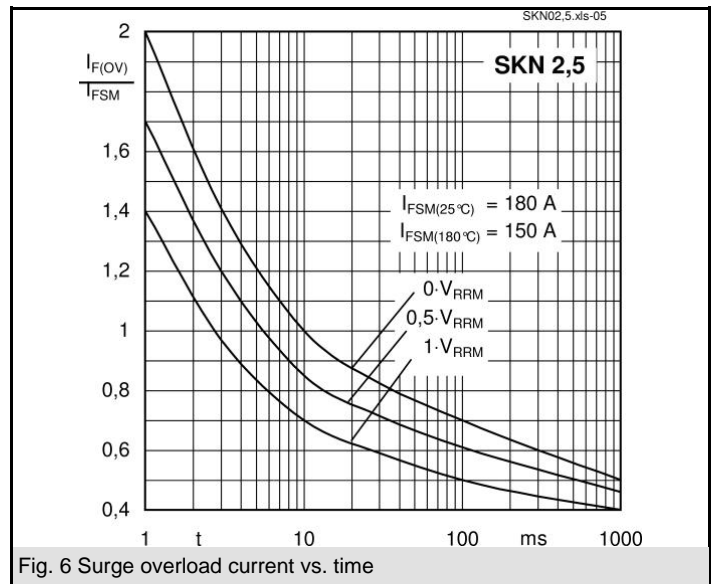
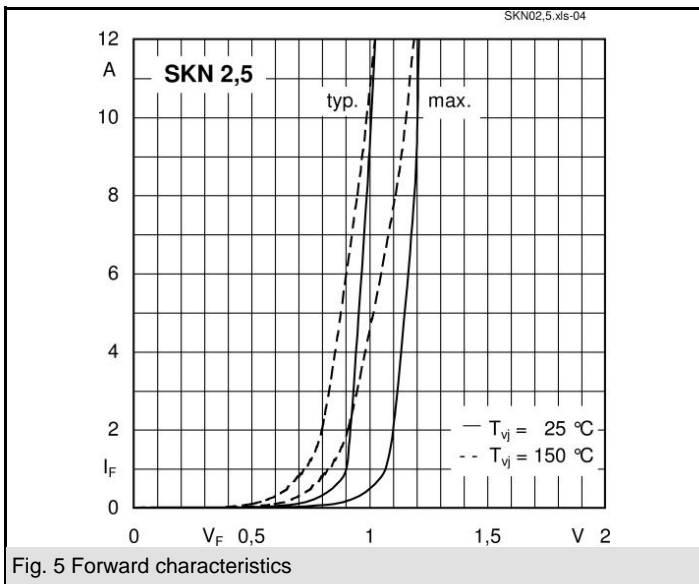
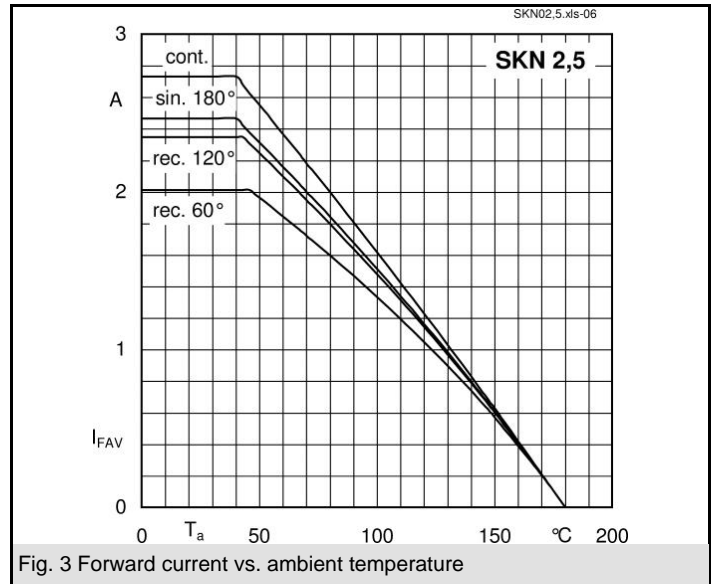
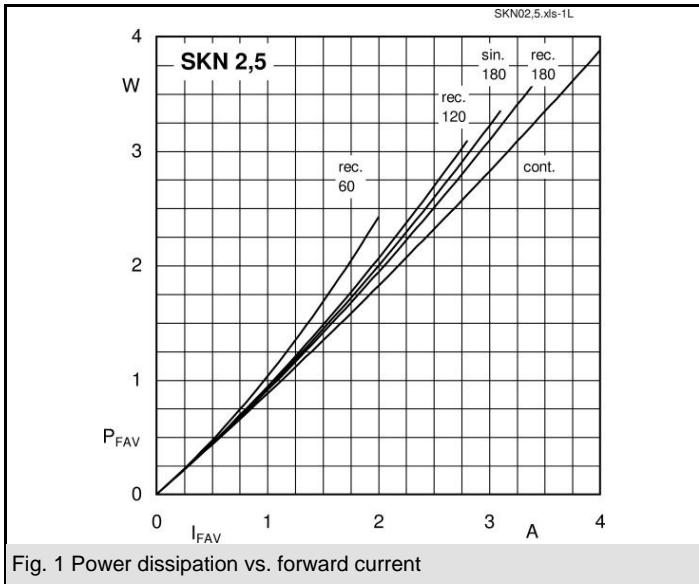
- All-purpose rectifier diodes
- For severe ambient conditions
- Recommended snubber network:  
 $RC: 0,02 \mu F, 500 \Omega (P_R = 1 W)$   
 $R_P = 270 k\Omega (P_R = 2 W)$

$V_{RSM}$ V	$V_{RRM}$ V	$I_{FRMS} = 5 A$ (maximum value for continuous operation) $I_{FAV} = 2,5 A$ (sin. 180; $T_a = 45 \text{ }^\circ C$ )	
400	400	SKN 2,5/04	
800	800	SKN 2,5/08	
1200	1200	SKN 2,5/12	
1600	1600	SKN 2,5/16	

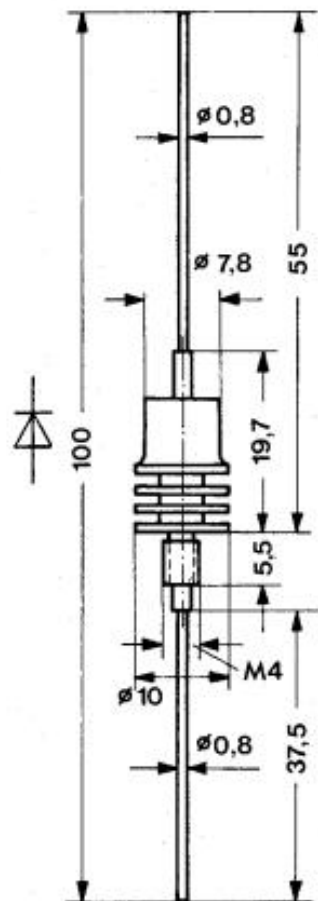
Symbol	Conditions	Values	Units
$I_{FAV}$	sin. 180; $T_a = 45 (85) \text{ }^\circ C$	2,5 (1,8)	A
$I_{FSM}$	$T_{vj} = 25 \text{ }^\circ C; 10 \text{ ms}$	180	A
	$T_{vj} = 180 \text{ }^\circ C; 10 \text{ ms}$	150	A
$i^2t$	$T_{vj} = 25 \text{ }^\circ C; 8,3 \dots 10 \text{ ms}$	160	$A^2s$
	$T_{vj} = 180 \text{ }^\circ C; 8,3 \dots 10 \text{ ms}$	110	$A^2s$
$V_F$	$T_{vj} = 25 \text{ }^\circ C; I_F = 10 A$	max. 1,2	V
$V_{(TO)}$	$T_{vj} = 180 \text{ }^\circ C$	max. 0,85	V
$r_T$	$T_{vj} = 180 \text{ }^\circ C$	max. 30	$m\Omega$
$I_{RD}$	$T_{vj} = 180 \text{ }^\circ C; V_{RD} = V_{RRM}$	max. 1,5	mA
$Q_{rr}$	$T_{vj} = 160 \text{ }^\circ C; - di_F/dt = 10 A/\mu s$	15	$\mu C$
$R_{th(j-c)}$		2,5	K/W
$R_{th(j-a)}$		55	K/W
$T_{vj}$		- 40 ... + 180	$^\circ C$
$T_{stg}$		- 55 ... + 180	$^\circ C$
$V_{isol}$		-	V~
$M_s$	to heatsink	0,8	Nm
$a$		$5 * 9,81$	$m/s^2$
$m$	approx.	6	g
Case		E 5	



SKN



Dimensions in mm



Case E 5 (IEC 60191: A 2 modified; JEDEC: DO-1 modified)

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.