

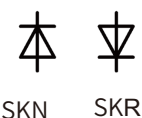
Features

- Reverse voltages up to 1800 V
- Hermetic metal case with glass insulator
- Cooling via heatsinks
- Threaded stud ISO M16 x 1,5, M20 x 1,5²⁾ or ¾ - 16 UNF 2A²⁾
- SKN: anode to stud
- SKR: cathode to stud



Typical Applications

- All purpose high power rectifier diodes
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes
- Recommended snubber network: $R_c: 0,5 \mu F, 30 \Omega (P_R = 2W)$, $R_p: 50 k\Omega (P_R = 20 W)$

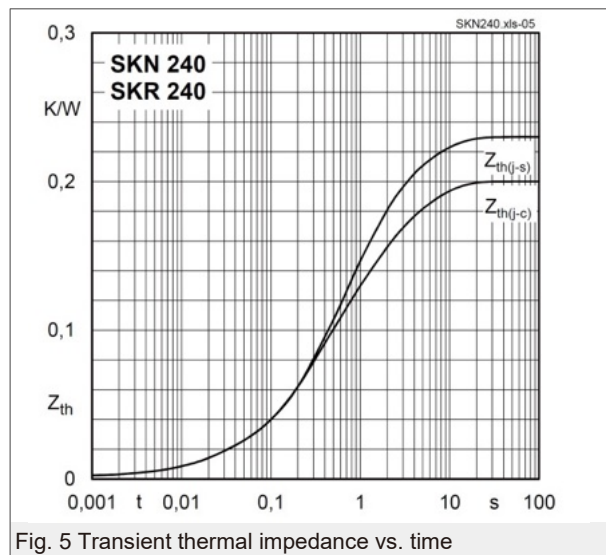
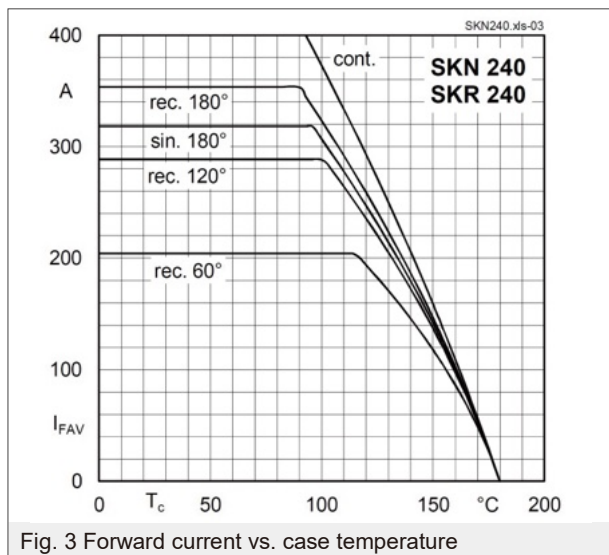
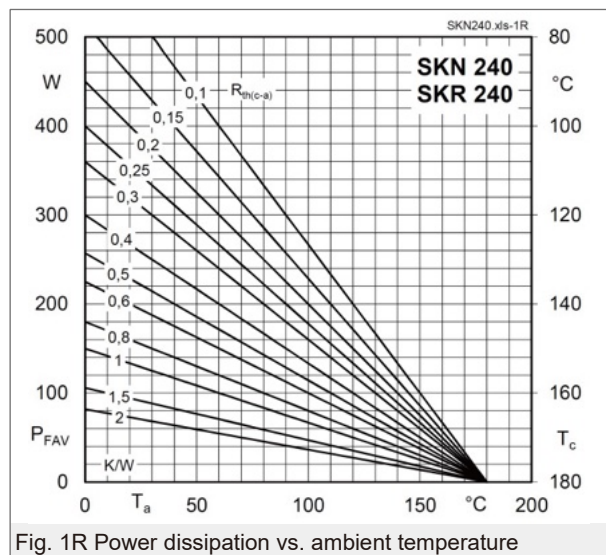
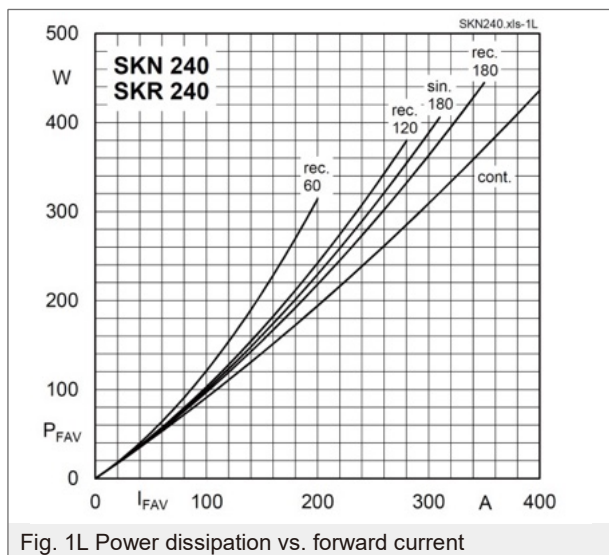


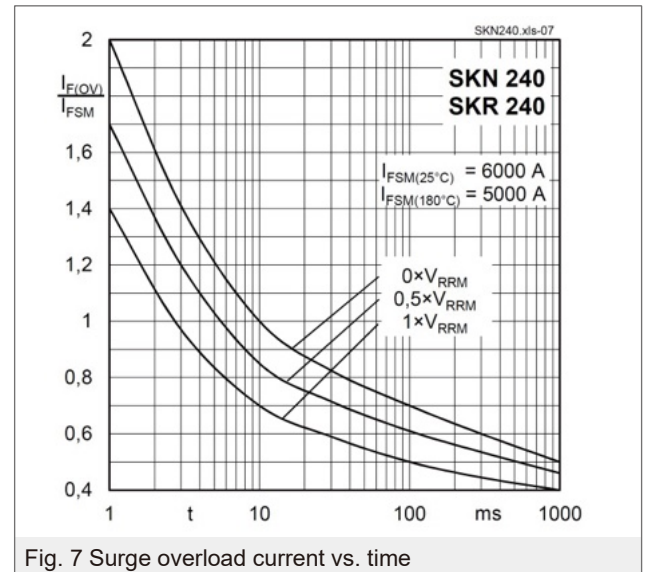
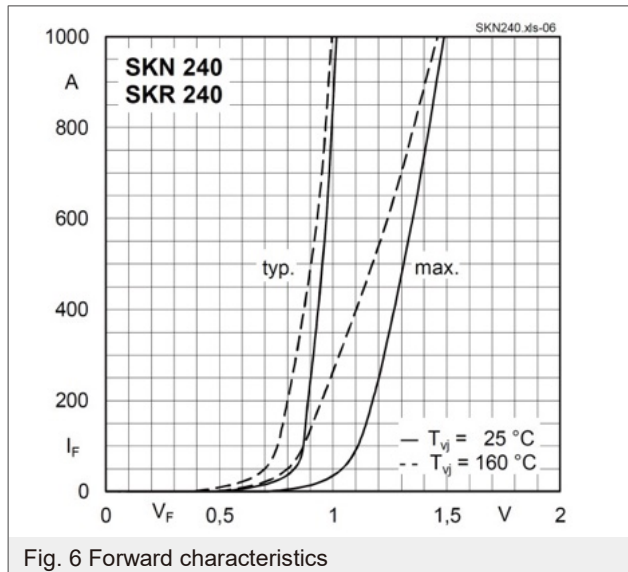
1. Mounting with grease-like thermal compound or joint contact compound
2. M16x1,5 is standard, "UNF" should be added in description for ¾ - 16 UNF thread, while "M20" must be added for M20x1,5
3. To include silicone sleeve, "C/ ESPAG." Should be added in description.

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 500 A$ (maximum value for continuous operation) $I_{FAV} = 240 A$ (sin. 180; $T_c = 122^\circ C$)	
400	400	SKN 240/04	SKR 240/04
800	800	SKN 240/08	SKR 240/08
1200	1200	SKN 240/12	SKR 240/12
1400	1400	SKN 240/14	SKR 240/14
1600	1600	SKN 240/16	SKR 240/16
1800	1800	SKN 240/18	SKR 240/18

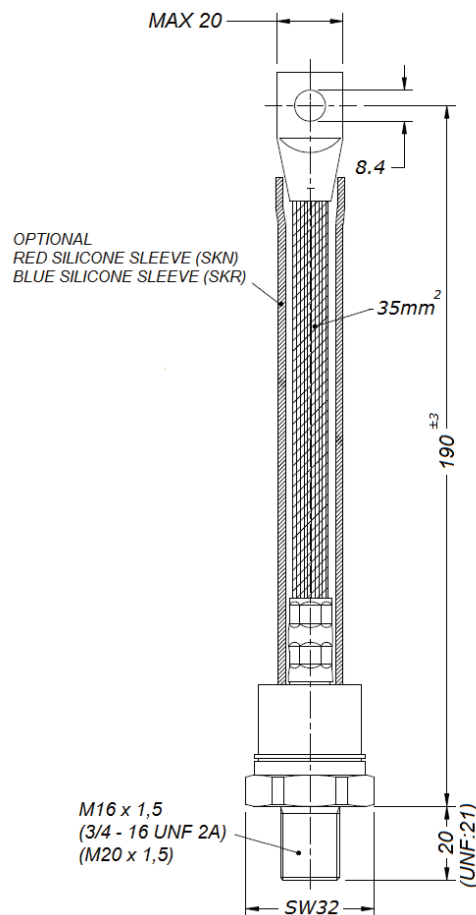
Symbol	Condition	Values	Units
I_{FAV}	sin. 180 ; $T_c = 95^\circ C$	320	A
I_D	P 1/120; $T_a = 50^\circ C$; B2 / B6	279 / 404	
	P 1/120F; $T_a = 40^\circ C$; B2 / B6	535 / 762	
I_{FSM}	$T_{vj} = 25^\circ C$; 10 ms	6000	A
	$T_{vj} = 180^\circ C$; 10 ms	5000	
i^2t	$T_{vj} = 25^\circ C$; 8,3...10 ms	180000	A^2s
	$T_{vj} = 180^\circ C$; 8,3...10 ms	125000	
V_F	$T_{vj} = 25^\circ C$, $I_F = 750 A$	max. 1,4	V
$V_{(TO)}$	$T_{vj} = 180^\circ C$	max. 0,85	V
r_T	$T_{vj} = 180^\circ C$	max. 0,6	mΩ
I_{RD}	$T_{vj} = 180^\circ C$; $V_{RD} = V_{RRM}$	max. 60	mA
Q_{rr}	$T_{vj} = 160^\circ C$, $-di_F/dt = 10 A/\mu s$	200	μC

$R_{th(j-c)}$		0,2	K/W
$R_{th(c-s)}$		0,03	K/W
T_{vj}		-40...+180	°C
T_{stg}		-55...+180	°C
V_{isol}		-	V~
M_s	M16 or 3/4-16 UNF Stud	30	Nm
	M20 Stud	40	Nm
	M16 or 3/4-16 UNF Stud (lubricated) ¹	22,5	Nm
	M20 Stud (lubricated) ¹	30	Nm
a		5 * 9,81	m/s ²
m	approx.	250	g
Case		E 15	





Dimensions in mm



Case E15 (IEC 60191: A 15 M; JEDEC: DO-205 AB)