



## Stud Diode

## Fast Recovery Rectifier Diode

SKN 2F17

SKR 2F17

### Features

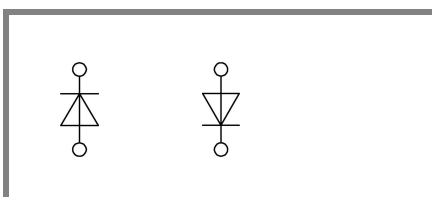
- Small recovered charge
- Soft recovery
- Up to 1000 V reverse voltage
- Hermetic metal case with glass insulator
- Threaded stud ISO M5 or 10-32 UNF
- SKN: anode to stud  
SKR: cathode to stud

### Typical Applications

- Inverse diode for power transistor, GTO thyristor, asymmetric thyristor
- SMPS, inverters, choppers
- for severe ambient conditions

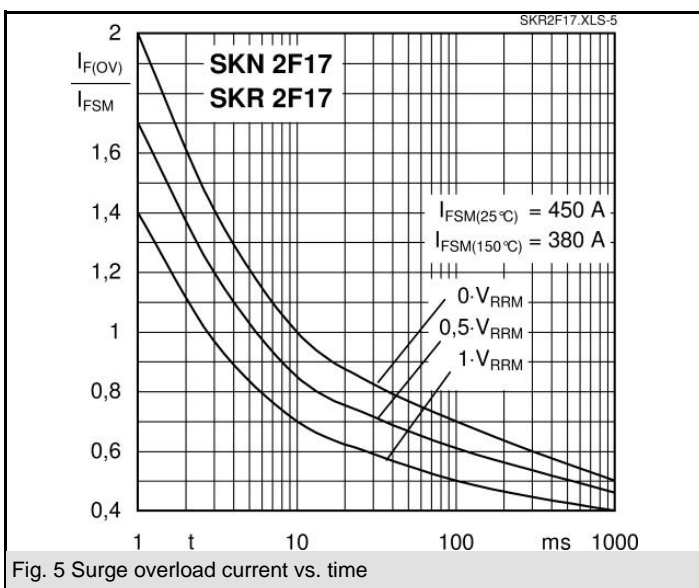
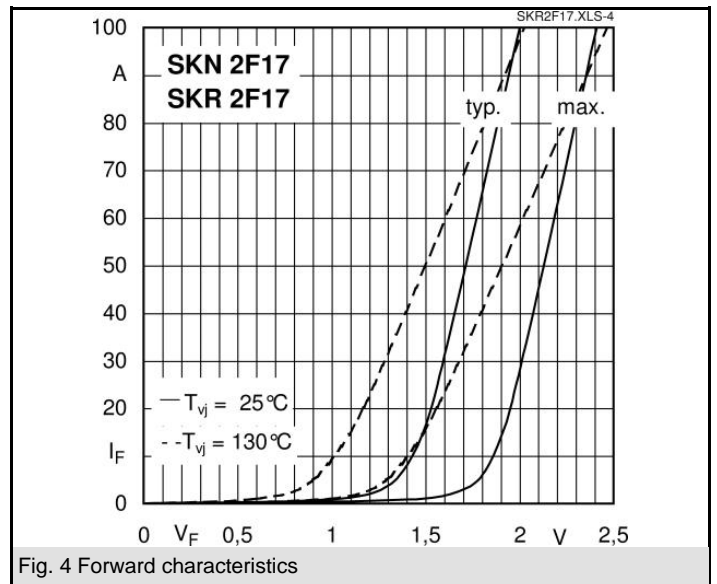
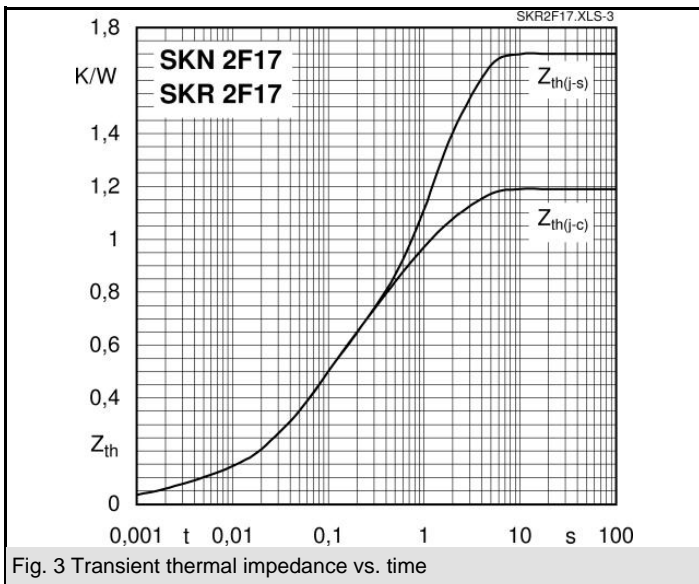
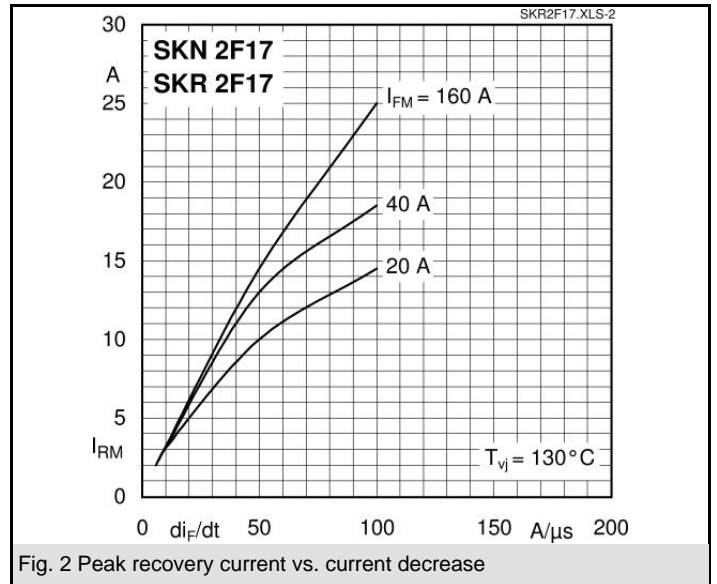
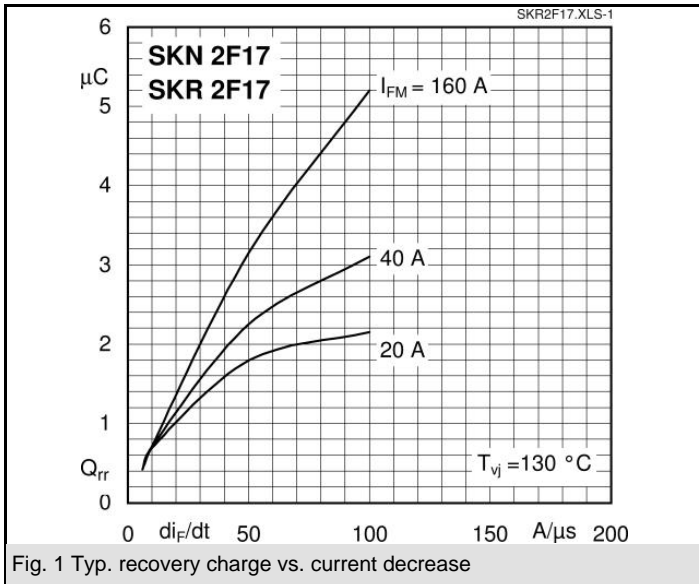
$V_{RSM}$ V	$V_{RRM}$ V	$I_{FRMS} = 41$ A (maximum value for continuous operation) $I_{FAV} = 17$ A (sin. 180; 5000Hz; $T_c = 113$ °C)	
400	400	SKN 2F17/04	SKR 2F17/04
400	400	SKN 2F17/04UNF	SKR 2F17/04UNF
600	600	SKN 2F17/06	SKR 2F17/06
600	600	SKN 2F17/06UNF	SKR 2F17/06UNF
800	800	SKN 2F17/08	SKR 2F17/08
800	800	SKN 2F17/08UNF	SKR 2F17/08UNF
1000	1000	SKN 2F17/10	SKR 2F17/10
1000	1000	SKN 2F17/10UNF	SKR 2F17/10UNF

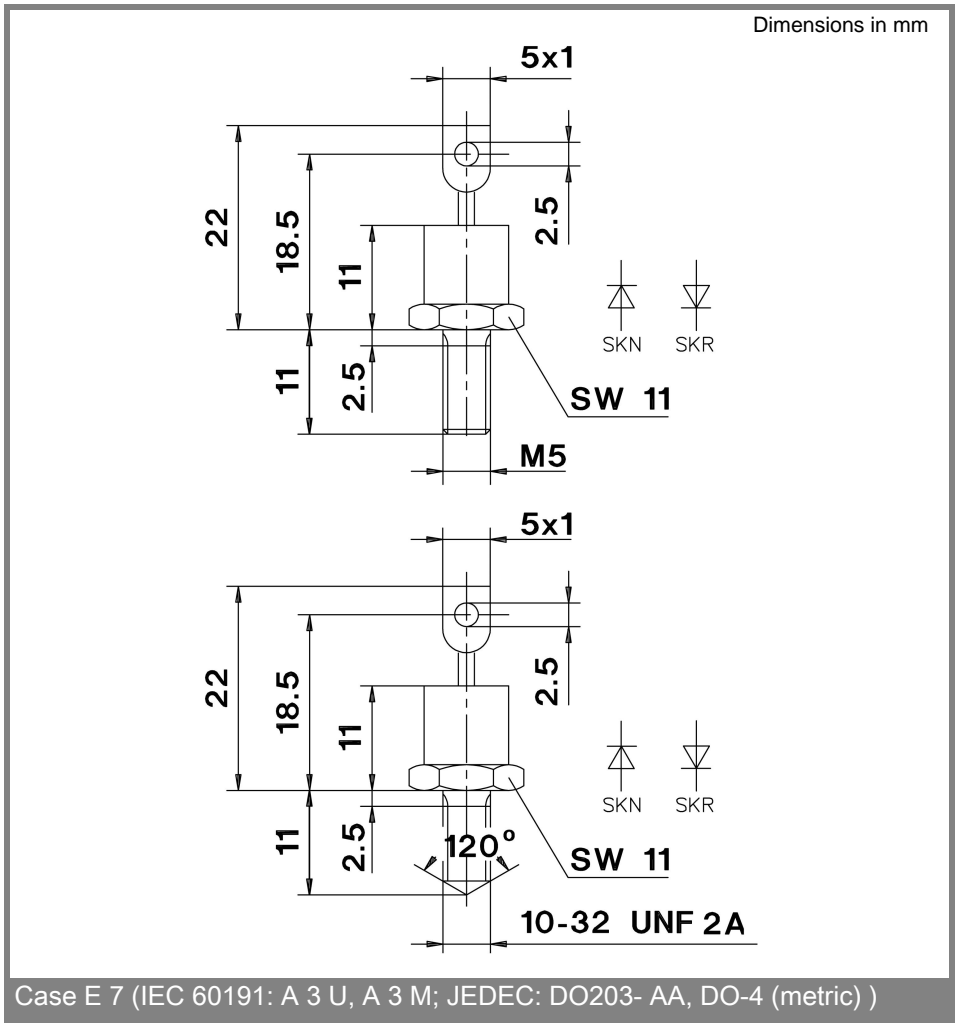
Symbol	Conditions	Values	Units
$I_{FAV}$	sin. 180; $T_c = 85$ (100) °C	26 (22)	A
$I_{FAV}$	K5,5; $T_a = 45$ °C; sin. 180; 5000 Hz	10	A
$I_{FSM}$	$T_{vj} = 25$ °C; 10 ms	450	A
	$T_{vj} = 150$ °C; 10 ms	380	A
$i^2t$	$T_{vj} = 25$ °C; 8,3 ... 10 ms	1000	A <sup>2</sup> s
	$T_{vj} = 150$ °C; 8,3 ... 10 ms	720	A <sup>2</sup> s
$V_F$	$T_{vj} = 25$ °C; $I_F = 50$ A	max. 2,15	V
$V_{(TO)}$	$T_{vj} = 130$ °C	max. 1,3	V
$r_T$	$T_{vj} = 130$ °C	max. 12	mΩ
$I_{RD}$	$T_{vj} = 25$ °C; $V_{RD} = V_{RRM}$	max. 0,2	mA
$I_{RD}$	$T_{vj} = 130$ °C; $V_{RD} = V_{RRM}$	max. 16	mA
$Q_{rr}$	$T_{vj} = 130$ °C, $I_F = 50$ A,	1	μC
$I_{RM}$	$-di/dt = 15$ A/μs, $V_R = 30$ V	4,5	A
$t_{rr}$		440	ns
$E_{rr}$		-	mJ
$R_{th(j-c)}$		1,2	K/W
$R_{th(c-s)}$		0,5	K/W
$T_{vj}$		- 40 ... + 150	°C
$T_{stg}$		- 55 ... + 150	°C
$V_{isol}$		-	V~
$M_s$	to heatsink	1,5	Nm
$a$		5 * 9,81	m/s <sup>2</sup>
$m$	approx.	7	g
Case		E7	



SKN

SKR





Case E 7 (IEC 60191: A 3 U, A 3 M; JEDEC: DO203- AA, DO-4 (metric) )

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