SKNa 26, SKRa 26



Stud Diode

Avalanche Diode

SKNa 26 SKRa 26

Features

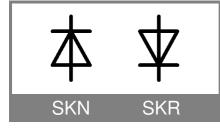
- Avalanche type reverse characteristic up to 2000 V
- Hermetic metal case with glass
 insulator
- Threaded stud ISO M6 (also 10-32 UNF 2A and M5)¹⁾
- Cooling via metal plates or heat sinks
- SKN: anode to stud
- SKR: cathode to stud

Typical Applications*

- DC power supplies for magnets or solenoids (brakes, valves, etc.)
- Field coil supply for DC motors
 Series connections for high voltage applications (dust precipitators)

1) M6x1 is standard; "UNF" should be added in description for 10-32 UNF 2A thread, or "M5" should be added in description for M5x0,8 thread.

2) Mounting with grease-like thermal compound or joint contact compound



| V _{(BR)min} | $I_{FRMS} = 40 \text{ A}$ (maximum value for continuous operation) $I_{FAV} = 26 \text{ A}$ (sin. 180; $T_c = 69 \text{ °C}$) | | C _{max} | R _{min} |
|----------------------|--|---------------------|------------------|------------------|
| V | IFAV = 26 A (SIN. | $180; 1_c = 69 °C)$ | μF | Ω |
| 1300 | SKNa 26/13 | SKRa 26/13 | | |
| 1700 | SKNa 26/17 | SKRa 26/17 | | |
| 1800 | SKNa 26/18 | SKRa 26/18 | | |
| 2000 | SKNa 26/20 | SKRa 26/20 | | |

| Symbol | Conditions | Values | Units |
|---|---|---|--|
| I _{FAV} | sin. 180; T _C = 86 (101) °C | 22 (18) | А |
| lD | K 9; T _a = 45 °C; B2 / B6 K 3; T _a = 45 °C; B2 / B6 | 17 / 24 30 / 42 | A A |
| I _{FSM} i ² t | $\begin{array}{l} T_{vj} = 25 \ ^{\circ}\text{C}; \ 10 \ \text{ms} \\ T_{vj} = \ 150 \ ^{\circ}\text{C}; \ 10 \ \text{ms} \\ T_{vj} = \ 25 \ ^{\circ}\text{C}; \ 8,310 \ \text{ms} \\ T_{vj} = \ 150 \ ^{\circ}\text{C}; \ 8,310 \ \text{ms} \end{array}$ | 375 320 700 510 | A A A ² s A ² s |
| V _F V _(TO) ľ _T Ir Prsm | $\begin{array}{l} T_{vj} = 25 \ ^{\circ}C; \ I_{\text{F}} = 60 \ \text{A} \\ T_{vj} = 150 \ ^{\circ}C \\ T_{vj} = 150 \ ^{\circ}C \\ T_{vj} = 25 \ ^{\circ}C; \ V_{\text{R}} = V_{(\text{BR})\text{min}} \\ T_{vj} = 150 \ ^{\circ}C; \ t_{p} = 10 \ \mu\text{s} \end{array}$ | max. 1,55 max. 0,85 max. 11 max. 10 6 | V V mΩ μA kW |
| Rth(j-c) Rth(c-s) Tvj Tstg | | 2 1 -40+150 -55+180 | °°°×× ××°°° |
| V _{isol} M _s a m | M6 M6 (lubricated) ²⁾ M5 or or 10-32 UNF 2A M5 or or 10-32 UNF 2A (lubricated) ²⁾ approx. | - 1,5 1,5 1,1 5 * 9,81 7 | V~ Nm Nm Nm m/s ² g |
| Case | | E 8 | |

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1

0.01

Fig. 9 Reverse power dissipation vs. time

SKNa26.xls-11

P_{RRM}

^s 100

SKNa 26

10000

w

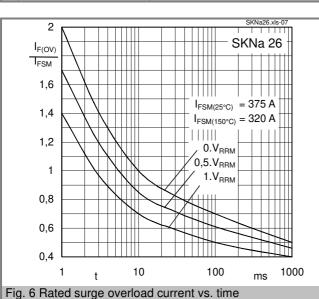
1000

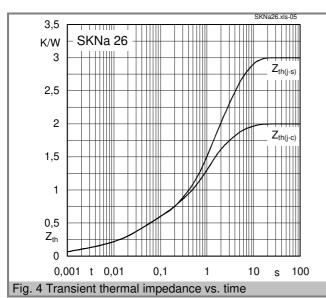
100

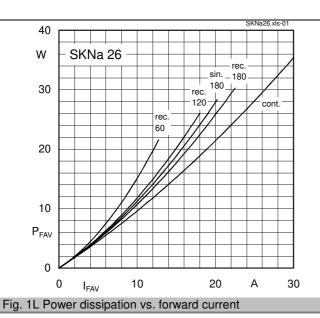
10

1

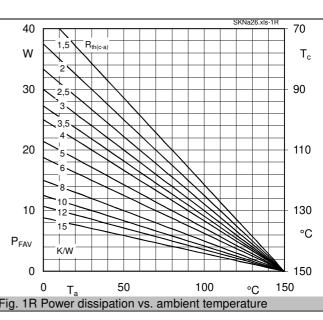
 $\mathsf{P}_{\mathsf{RRM}}$

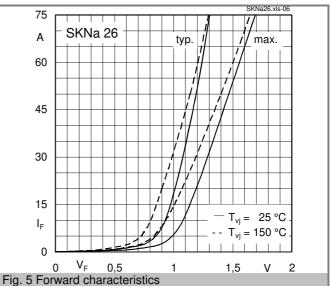


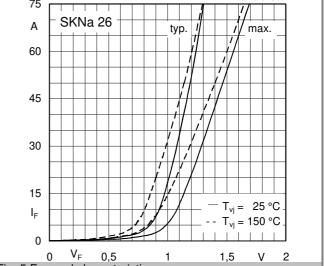


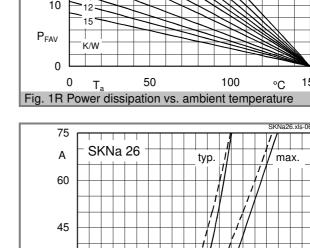


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10000

W

1000

100

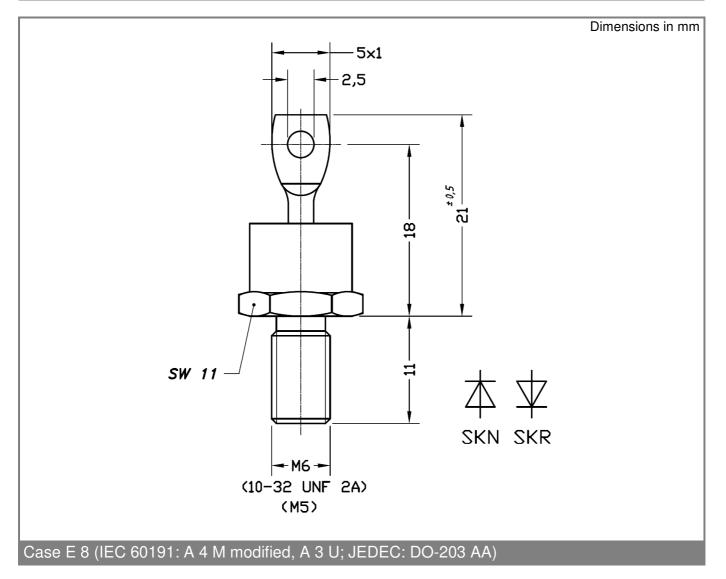
10 $\mathsf{P}_{\mathsf{RSM}}$

1

0,000001^t 0,0001

P_{RSM}

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