

# SKD 26



## Power Bridge Rectifiers

### SKD 26

#### Features

- Square plastic case with isolated metal base plate and wire leads
- Ideal for printed circuit boards
- Blocking voltage up to 1600 V
- High surge currents
- Notch moulded in casing for easy polarity identification
- Easy chassis mounting

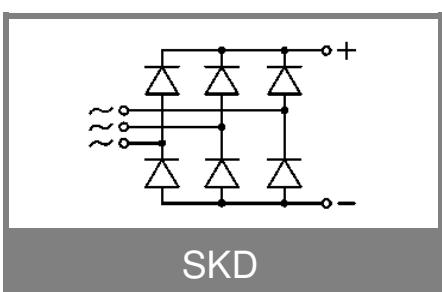
#### Typical Applications

- Three-phase rectifier for power supplies
- Input rectifiers for variable frequency drives
- Rectifier for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network:  $RC: 50 \Omega, 0.1 \mu F (P_R = 1 W)$

- 1) Soldered directly on a p.c.b. of 100 x 160 mm with tinned tracking of min. 2.5 mm
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm
- 3) Recommended

$V_{RSM}, V_{RRM}$ V	$V_{VRMS}$ <sup>3)</sup> V	$I_D = 20 A (T_c = 73^\circ C)$ Types	$C_{max}$ $\mu F$	$R_{min}$ $\Omega$
400	125	SKD 26/04		0,3
800	250	SKD 26/08		0,7
1200	380	SKD 26/12		1
1600	500	SKD 26/16		1,5

Symbol	Condition	Values	Units
$I_D$	$T_a = 45^\circ C$ , isolated <sup>1)</sup>	3,5	A
	$T_a = 45^\circ C$ , chassis <sup>2)</sup>	12	A
$I_{DCL}$	$T_a = 45^\circ C$ , isolated <sup>1)</sup>	3,5	A
	$T_a = 45^\circ C$ , chassis <sup>2)</sup>	12	A
$I_{FSM}$	$T_{vj} = 25^\circ C ; 10 \text{ ms}$	370	A
	$T_{vj} = 150^\circ C ; 10 \text{ ms}$	320	A
$i^2t$	$T_{vj} = 25^\circ C ; 8,3 \dots 10 \text{ ms}$	680	$A^2 \text{s}$
	$T_{vj} = 150^\circ C ; 8,3 \dots 10 \text{ ms}$	500	$A^2 \text{s}$
$V_F$	$T_{vj} = 25^\circ C, I_F = 150 A$	max. 2,2	V
$V_{(TO)}$	$T_{vj} = 150^\circ C$	0,85	V
$r_T$	$T_{vj} = 150^\circ C$	12	$m\Omega$
$I_{RD}$	$T_{vj} = 25^\circ C ; V_{RD} = V_{RRM}$	300	$\mu A$
$I_{RD}$	$T_{vj} = 150^\circ C ; V_{RD} = V_{RRM}$	5	mA
$t_{rr}$	$T_{vj} = 25^\circ C$	typ. 10	$\mu s$
$f_G$		2000	Hz
$R_{th(j-a)}$	isolated <sup>1)</sup>	15	K/W
	chassis <sup>2)</sup>	4,7	K/W
$R_{th(j-c)}$	total	1,75	K/W
$R_{th(c-s)}$	total	0,15	K/W
$T_{vj}$		-40 ... +150	$^\circ C$
$T_{stg}$		-55 ... +150	$^\circ C$
$V_{isol}$	a. c. 50 ... 60 Hz; r.m.s.; 1 s / 1 min.	3000 / 2500	V~
$M_s$	to heatsink	2 $\pm$ 15 %	Nm
	SI units	18 $\pm$ 15 %	Lb. in.
$m$	US units	18	g
Case			



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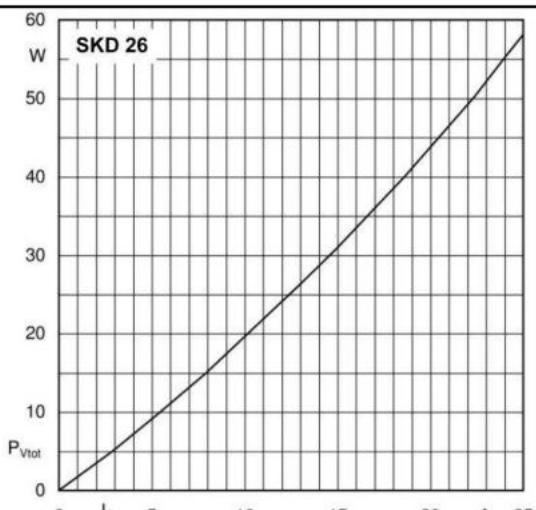


Fig. 3L Power dissipation vs. output current

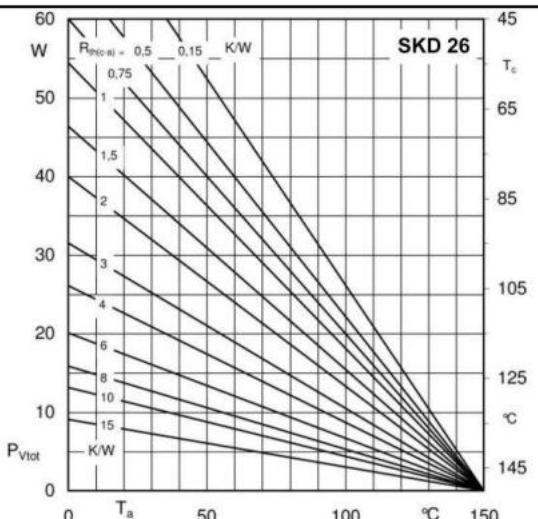


Fig. 3R Power dissipation vs. case temperature

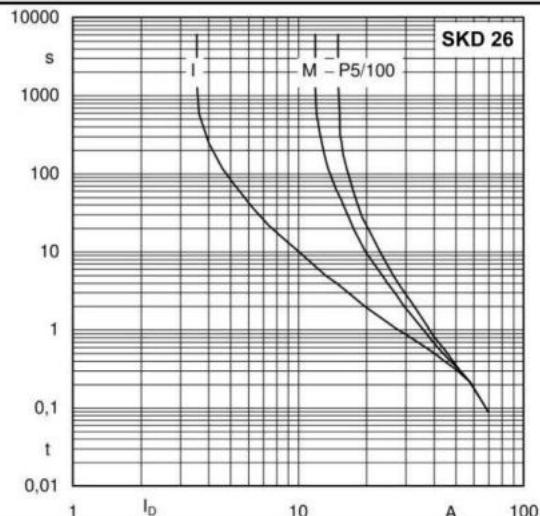


Fig. 6 Rated overload characteristics vs. time

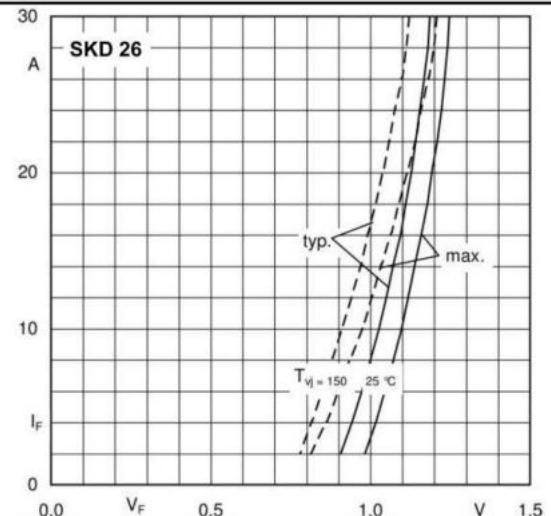
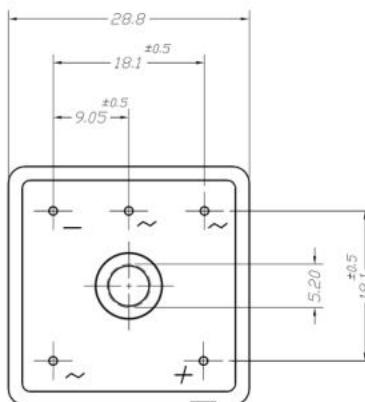
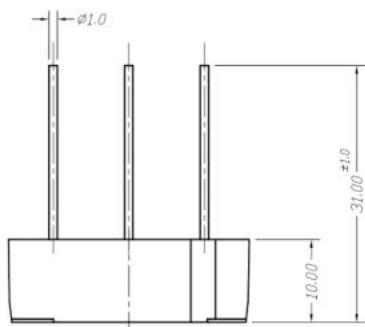


Fig. 9 Forward characteristics of a diode arm

Dimensions in mm



## Case G50d

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