

SKD 26



Power Bridge Rectifiers

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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

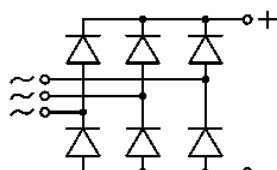
Typical Applications

- 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 Ω , 0.1 μ 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	$V_{VRMS}^{3)}$ V	$I_D = 20$ A ($T_c = 73$ °C) Types	C_{max} μ F	R_{min} Ω
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	$T_a = 45$ °C, isolated ¹⁾	3,5	A
	$T_a = 45$ °C, chassis ²⁾	12	A
I_{DCL}	$T_a = 45$ °C, isolated ¹⁾	3,5	A
	$T_a = 45$ °C, chassis ²⁾	12	A
I_{FSM}	$T_{vj} = 25$ °C ; 10 ms	370	A
	$T_{vj} = 150$ °C ; 10 ms	320	A
i^2t	$T_{vj} = 25$ °C ; 8,3 ... 10 ms	680	A ² s
	$T_{vj} = 150$ °C ; 8,3 ... 10 ms	500	A ² s
V_F	$T_{vj} = 25$ °C, $I_F = 150$ A	max. 2,2	V
$V_{(TO)}$	$T_{vj} = 150$ °C	0,85	V
r_T	$T_{vj} = 150$ °C	12	m Ω
I_{RD}	$T_{vj} = 25$ °C ; $V_{RD} = V_{RRM}$	300	μ A
I_{RD}	$T_{vj} = 150$ °C ; $V_{RD} = V_{RRM}$	5	mA
t_{rr}	$T_{vj} = 25$ °C	typ. 10	μ s
f_G		2000	Hz
$R_{th(j-a)}$	isolated ¹⁾	15	K/W
	chassis ²⁾	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	°C
T_{stg}		-55 ... +150	°C
V_{isol}	a. c. 50 ... 60 Hz; r.m.s.; 1 s / 1 min.	3000 / 2500	V~
M_s	to heatsink SI units	2 ± 15 %	Nm
	US units	18 ± 15 %	Lb. in.
m	approx.	18	g
Case			



SKD

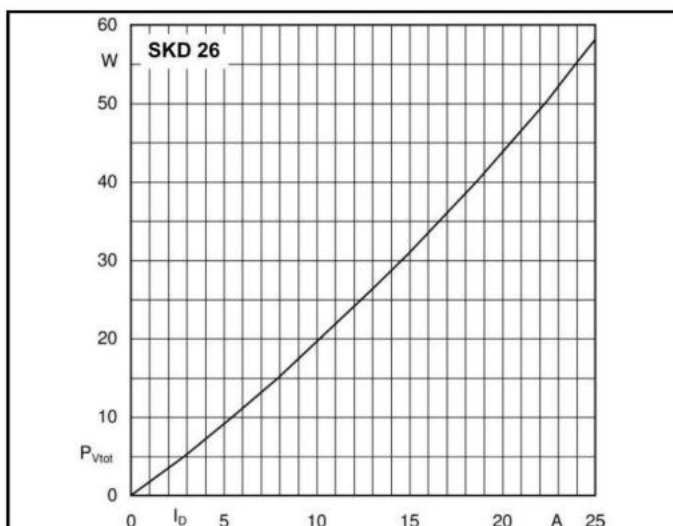


Fig. 3L Power dissipation vs. output current

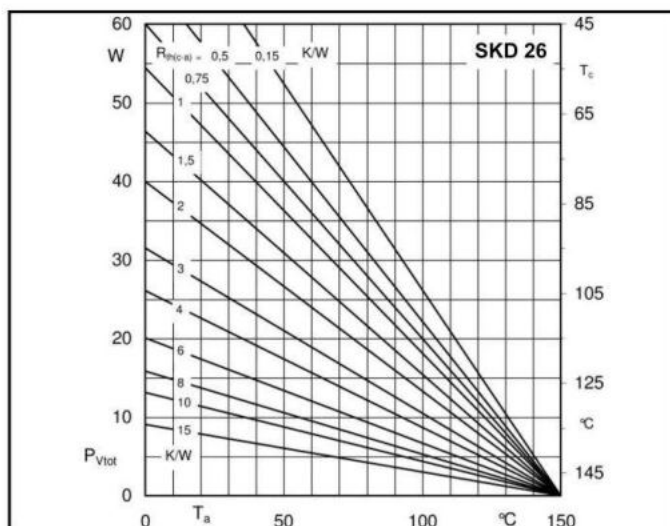


Fig. 3R Power dissipation vs. case temperature

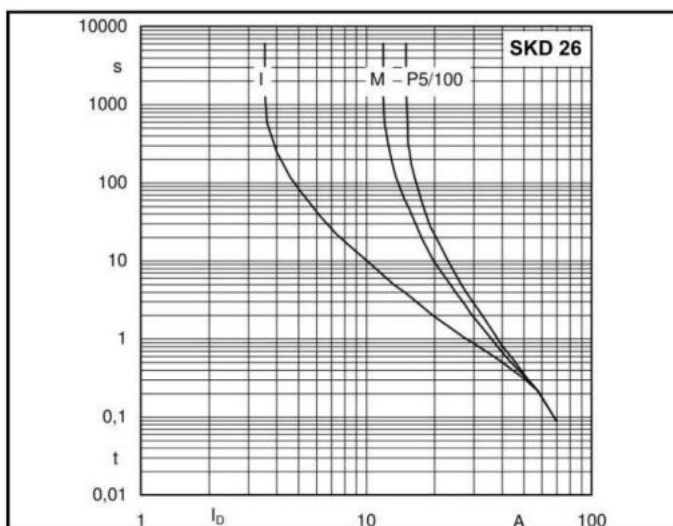


Fig. 6 Rated overload characteristics vs. time

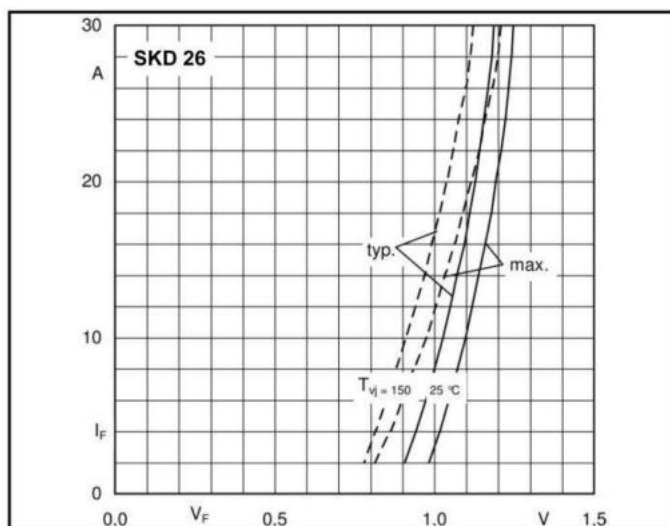
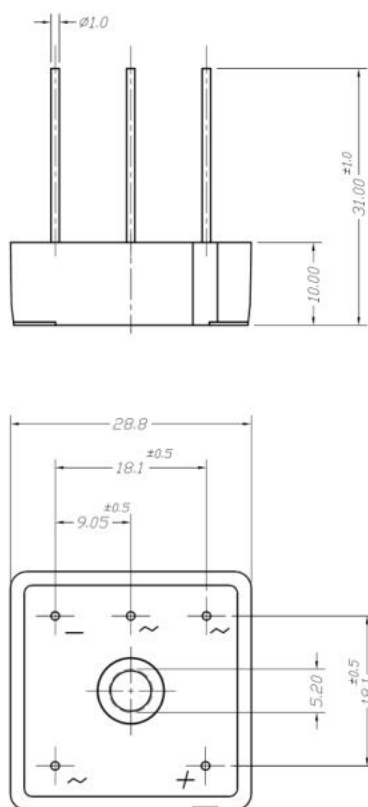


Fig. 9 Forward characteristics of a diode arm

Dimensions in mm



Case G50d

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