

Power Bridge Rectifiers

SKD 31

Features

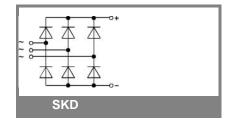
- Sturdy isolated metal baseplate
- · Fast-on terminals with solder tips
- · Suitable for wave soldering
- . High surge current ratings
- UL recognized, file no. E 63 532

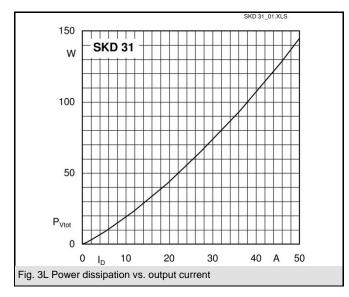
Typical Applications

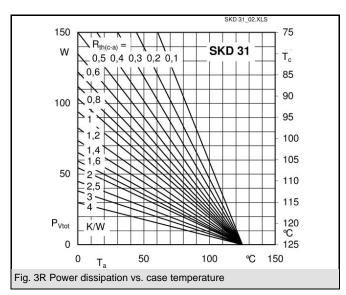
- DC power supply, e.g. for transistorized AC motor controllers
- Battery chargers
- Non-controlled DC motor field supply
- Recommended snubber network: RC: 0.1 μ F, 50 Ω (P $_{R}$ = 1 W)
- Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

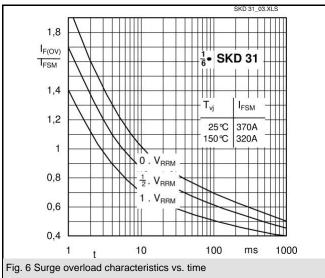
V_{RSM}	V_{RRM}, V_{DRM}	I _D = 31 A (full conduction)
V	V	(T _c = 100 °C)
200	200	SKD 31/02
400	400	SKD 31/04
800	800	SKD 31/08
1200	1200	SKD 31/12
1400	1400	SKD 31/14
1600	1600	SKD 31/16

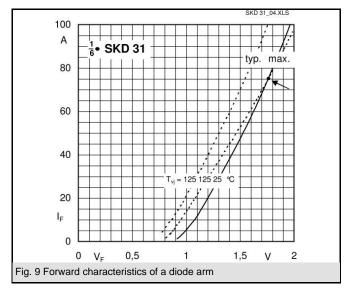
Symbol	Conditions	Values	Units
I _D	T _c = 85 °C	44	Α
_	T _a = 45 °C; isolated ¹⁾	5,3	Α
	T _a = 45 °C; chassis ²⁾	17	Α
	T _a = 45 °C; R4A/120 (P1A/120)	27 (32)	Α
	T _a = 35 °C; P1A/120 F	56	Α
I _{FSM}	T _{vj} = 25 °C; 10 ms	370	Α
	T _{vi} = 125 °C; 10 ms	320	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms ms	685	A²s
	T _{vj} = 125 °C; 8,3 10 ms ms	510	A²s
V _F	T _{vi} = 25 °C; I _F = 75 A	max. 1,75	V
$V_{(TO)}$	T _{vi} = 125 °C	max. 0,85	V
r _T	T _{vi} = 125 °C	max. 12	$m\Omega$
I _{RD}	T_{vj}^{\prime} = 25 °C; V_{DD} = V_{DRM} ; V_{RD} = V_{RRM}	max. 0,2	mA
	$T_{vj}^{,j}$ = 125 °C, $V_{DD} = V_{DRM}^{,j}$, $V_{RD} = V_{RRM}^{,j}$	2	mA
R _{th(j-c)}	per diode	2	K/W
tn(j-c)	total	0.33	K/W
R _{th(c-s)}	total	0,1	K/W
R _{th(j-a)}	isolated 1) (chassis 2))	15 (3)	K/W
T _{vj}		- 40 + 125 °C	°C
T _{stg}		- 40 + 125 °C	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 (3000)	V
M _s	to heatsink	2 ± 15 %	Nm
M _t			
m		66	g
Case		G 26	

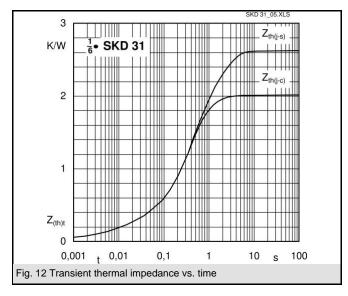


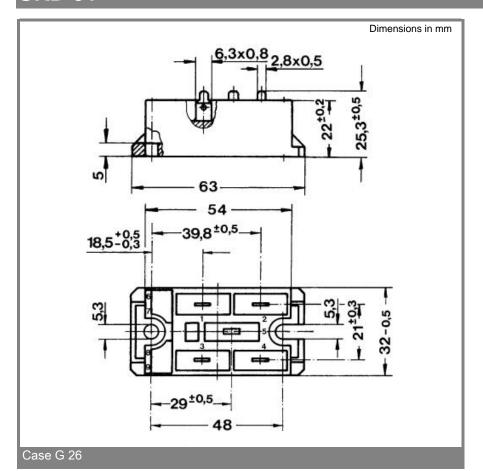


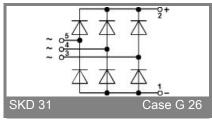












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