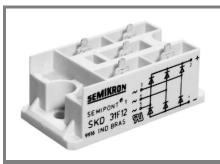
SKD 31F



SEMIPONT® 1

Power Bridge Rectifiers

SKD 31F

Features

- Low generated noise and peak reverse current
- Sturdy isolated metal baseplate
- Fast-on terminals with solder tips
- Suitable for wave soldering
- Blocking voltage up to 2200 V
- High surge current rating
- UL recognized, file no. E 63 532

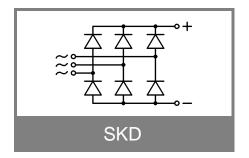
Typical Applications

- Low EMI applications
- Input rectifiers for variable frequency drives
- Battery charger rectifiers
- Three phase rectifiers for power supplies
- Recommended snubber network for 50...60 Hz applications:
 RC: 50 Ω, 0.1 μF (P_R = 1 W)
- 1) f = 50 ... 1000 Hz
- Freely suspended or mounted on an insulator
- Mounted on a painted metal sheet of min. 250 x 250 x 1 mm
- 4) Recommended

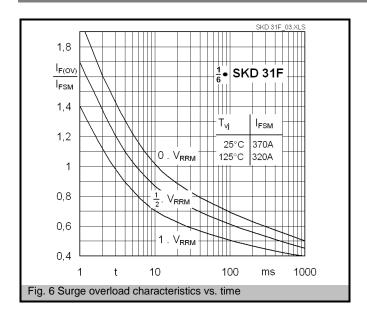
V _{RSM} , V _{RRM}	V _{RMS} 4)	$I_D = 31 \text{ A } (T_{case} = 100 {}^{\circ}\text{C})^{-1}$ Types
400 800 1200 1600	125 250 400 500	SKD 31F/04 SKD 31F/08 SKD 31F/12 SKD 31F/16
2200	690	SKD 31F/22 *

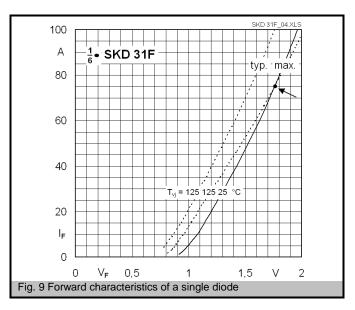
* Available in limited quantities

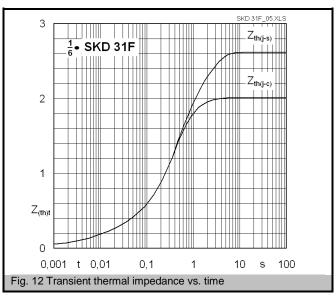
* Available in limited quantities					
Symbol	Condition	Values	Units		
$I_D^{1)}$	T _{case} = 85 °C	44	Α		
	T _{amb} = 45 °C, isolated ²⁾	5,3	Α		
	chassis 3)	17	Α		
	P5A/100 P1A/120	26 32	A A		
	T _{amb} = 35 °C, P1A/120F	56	A		
	T _{amb} = 35 °C, PTA/120F	00	A		
I _{FSM}	$T_{vj} = 25 {}^{\circ}\text{C}$; 10 ms	370	Α		
i ² t	$T_{vj} = 125 ^{\circ}\text{C}$; 10 ms	320	A A ² s		
1 ($T_{vj} = 25 ^{\circ}\text{C}$; 8,310 ms $T_{vi} = 125 ^{\circ}\text{C}$; 8,310 ms	685 510	A S A ² S		
	,				
V_{F}	$T_{vj} = 25 ^{\circ}\text{C}, I_F = 75 \text{A}$	max. 1,75	V		
$V_{(TO)}$ r_T	$T_{vj} = 125 ^{\circ}\text{C}$ $T_{vi} = 125 ^{\circ}\text{C}$	0,85 12	V mΩ		
'	170] = 123 0	12	1115.2		
I_{RD}	$T_{vj} = 25$ °C; $V_{RD} = V_{RRM}$	200	μA		
I _{RD}	T_{vj} = 125 °C ; V_{RD} = V_{RRM} T_{vi} = 25 °C , I_F = I_R = 1 A	4 2,5	mA		
t _{rr}	,	2,5	μs		
$R_{th(j-a)}$	isolated ²⁾	15	K/W		
	chassis 3)	3	K/W		
	P5A/100 P1A/120	1,85 1,05	K/W K/W		
R _{th(j-c)}	per diode	2,0	K/W		
TXtn(j-c)	total	0,33	K/W		
R _{th(c-s)}	total	0,1	K/W		
T _{vi}	10.13.	-40 +125	°C		
T _{stg}		-55 +125	°C		
V _{isol}	a. c. 50 60 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~		
Ms	to heatsink SI units	2 ± 15 %	Nm		
	US units	18 ± 15%	lb. in.		
M	approx.	66	g		
Case		G 26			

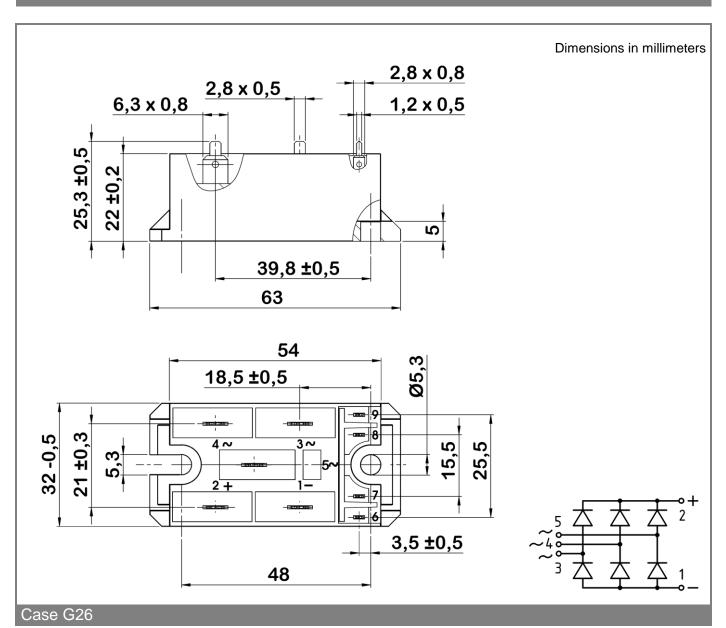


SKD 31F









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