

SEMIPONT® 4

## Power Bridge Rectifiers

## **SKD 210**

**Preliminary Data** 

## **Features**

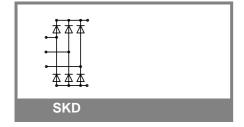
- Robust plastic case with screw terminals
- Large, isolated base plate
- Blocking voltage up to 1800 V
- High surge currents
- Three phase brige rectifier
- · Easy chassis mounting
- UL recognition applied for file no. E 63 532

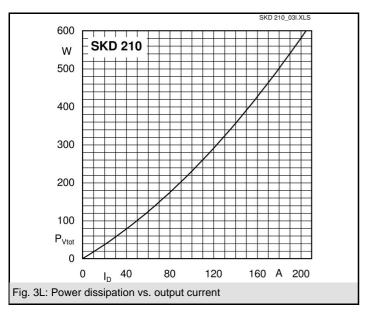
## **Typical Applications**

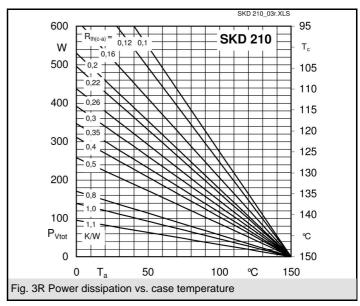
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers
- Max. output current limited by the terminals: 220A rms

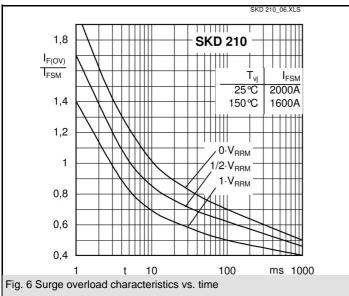
V <sub>RSM</sub>	$V_{RRM}, V_{DRM}$	I <sub>D</sub> = 210 A (full conduction)
V	V	(T <sub>c</sub> = 99 °C)
900	800	SKD 210/08
1300	1200	SKD 210/12
1700	1600	SKD 210/16
1900	1800	SKD 210/18

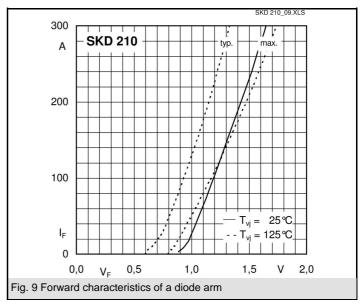
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>c</sub> = 100 °C	207	А
$I_D$	T <sub>C</sub> = 95 °C	220 <sup>1)</sup>	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	2000	Α
	T <sub>vi</sub> = 150 °C; 10 ms	1600	Α
i²t	$T_{vj} = 25 ^{\circ}\text{C}; 8,3 \dots 10 \text{ms}$	20000	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms	12800	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 300 A	max. 1,65	V
$V_{(TO)}$	T <sub>vi</sub> = 150 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vi</sub> = 150 °C	max. 3	mΩ
I <sub>RD</sub>	$T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}, V_{RD} = V_{RRM}$	max. 0,5	mA
	$T_{vj}^{-j} = 150 \text{ °C}, V_{RD} = V_{RRM}$	6	mA
D	per diode	0,5	K/W
R <sub>th(j-c)</sub>	total	0,083	K/W
$R_{th(c-s)}$	total	0,03	K/W
T <sub>vi</sub>		- 40 <b>+</b> 150	°C
T <sub>stg</sub>		- 40 <b>+</b> 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 ( 3000 )	V
M <sub>s</sub>	to heatsink	5 ± 15 %	Nm
$M_{t}$	to terminals	5 ± 15 %	Nm
m		270	g
Case		G 37	

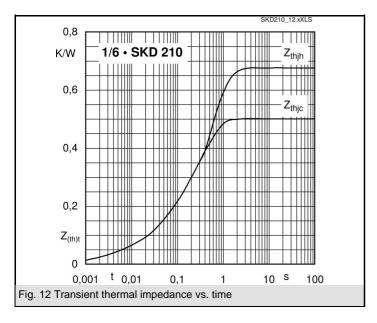


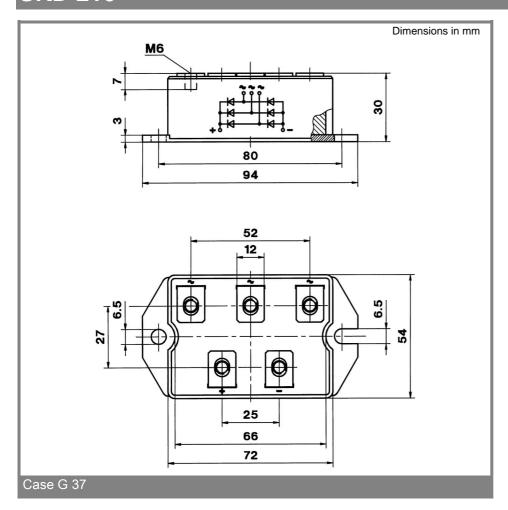












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