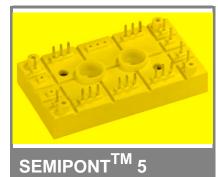
SKDH 115



Half Controlled 3-phase Bridge Rectifier

SKDH 115

Target Data

Features

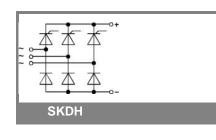
- Compact design
- Two screws mounting
- Heat transfer and isolation through direct copper board (low R th)
- Low resistance in steady-state
 and high reliability
- High surge currents
- UL -recognized, file no. E 63 532

Typical Applications*

- For DC drives with a fixed direction of rotation
- Controlled field rectifier for DC motors
- Controlled battery charger

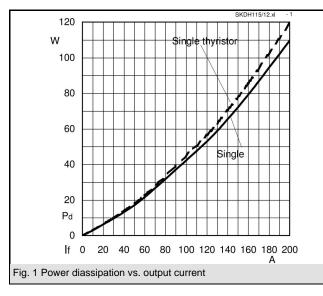
V _{RSM}	V _{RRM} , V _{DRM}	$I_D = 110 \text{ A} (\text{full conduction})$
1200	1200	(T _s = 80 °C) SKDH 115/12
1600	1600	SKDH 115/16

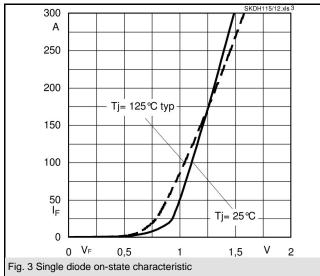
Symbol	Conditions	Values	Units
I _D	T _s = 80 °C	110	А
I _{TSM} , I _{FSM}	T _{vi} = 25 °C; 10 ms	1050	А
	T _{vi} = 125 °C; 10 ms	950	А
i²t	T _{vi} = 25 °C; 8,3 10 ms	5500	A²s
	T _{vj} = 125 °C; 8,3 10 ms	4500	A²s
V _T , V _F	T _{vi} = 25 °C; I _T , I _F =120A	max. 1,8	V
V _{T(TO)} / Vf(TO)	T _{vj} = 125 °C;	max. 1,1	V
r _T	T _{vj} = 125 °C	max. 6	mΩ
I _{DD} ; I _{RD}	T_{vj} = 125 °C; V_{DD} = V_{DRM} ; V_{RD} = V_{RRM}	max. 20	mA
t _{gd}	$T_{vj} = ^{\circ}C; I_G = A; di_G/dt = A/\mu s$		μs
t _{gr}	$V_{D} = \cdot V_{DRM}$		μs
(dv/dt) _{cr}	T _{vi} = 125 °C	max. 1000	V/µs
(di/dt) _{cr}	T _{vj} = 125 °C; f = 5060 Hz	max. 50	A/µs
t _q	T _{vj} = 125 °C; typ.	150	μs
I _H	T _{vj} = 25 °C; typ. / max.	- / 200	mA
I _L	T_{vj} = 25 °C; R_G = 33 Ω	- / 400	mA
V _{GT}	T _{vj} = 25 °C; d.c.	min. 3	V
I _{GT}	T _{vj} = 25 °C; d.c.	min. 150	mA
V _{GD}	T _{vj} = 125 °C; d.c.	max. 0,25	V
I _{GD}	T _{vj} = 125 °C; d.c.	max. 5	mA
			K/W
			K/W
R _{th(j-s)}	per thiristor / diode	0,84	K/W
T _{vj}		- 40 + 125	°C
T _{stg}		- 40 + 125	°C
T _{solder}	terminals	260	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 (3000)	V
M _s	to heatsink	2,5	Nm
Mt			Nm
m	approx.	75	g
Case	SEMIPONT 5	G 61	

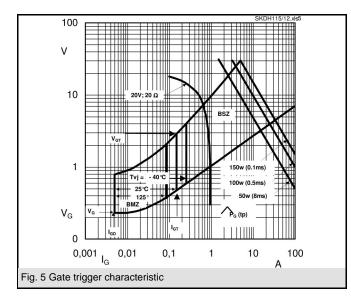


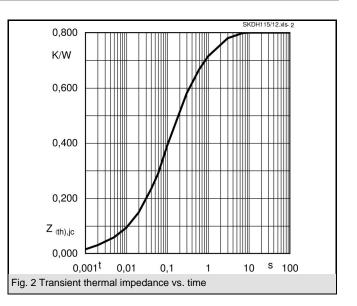
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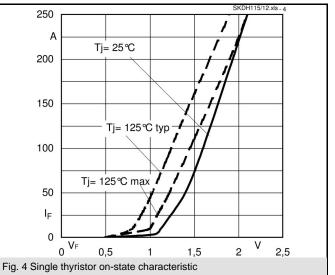
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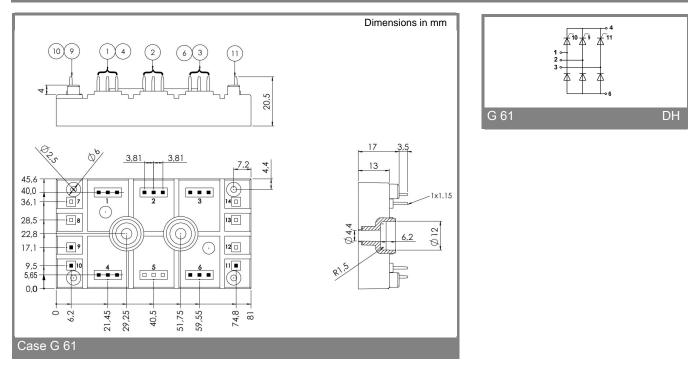








SKDH 115



* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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