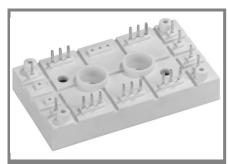
## **SKD 145**



SEMIPONT<sup>©</sup> 5

### **Bridge Rectifiers**

#### **SKD 145**

**Target Data** 

#### **Features**

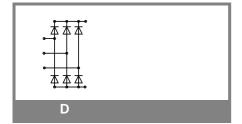
- Compact design
- SKiiP technology: thermal pressure contact, no base plate and no hard mould
- Two screws mounting
- Heat transfer and isolation through direct copper board (low R th)
- Low resistance in steady-state and high reliability
- High surge currents
- Up to 1800 V
- UL recognized, file no. E 63 532

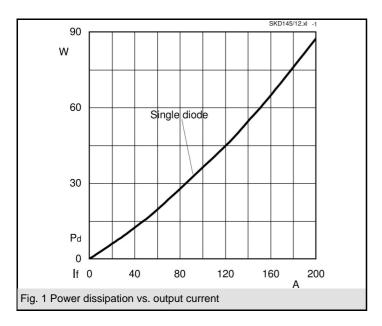
### **Typical Applications**

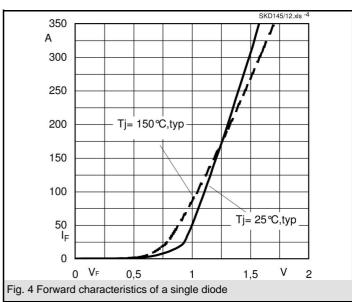
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers

V <sub>RSM</sub>	$V_{RRM}, V_{DRM}$	I <sub>D</sub> = 140 A (full conduction)
V	V	(T <sub>s</sub> = 85 °C)
1200	1200	SKD 145/12
1600	1600	SKD 145/16
1800	1800	SKD 145/18

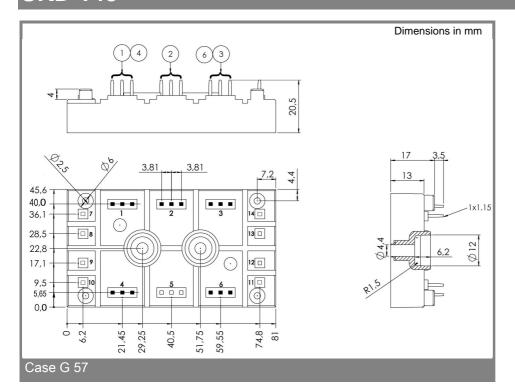
Symbol	Conditions	Values	Units
$I_D$	T <sub>s</sub> = 85 °C	140	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	1800	Α
	T <sub>vi</sub> = 125 °C; 10 ms	1700	Α
i²t	T <sub>vi</sub> = 25 °C; 8,3 10 ms	16200	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	14450	A²s
V <sub>F</sub>	T <sub>vi</sub> = 125 °C; I <sub>F</sub> = 150 A	max. 1,3	V
V <sub>(TO)</sub>	T <sub>vi</sub> = 125 °C	max. 0,8	V
r <sub>T</sub>	T <sub>vi</sub> = 125 °C	max. 4	mΩ
$I_{RD}$	$T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$		mA
			mA
$R_{thjh}$	per diode	0,8	K/W
			K/W
T <sub>solder</sub>	Terminals, max 10s	260	°C
T <sub>vj</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; SI units	2,5	Nm
$M_t$			Nm
m		75	g
Case		G 57	

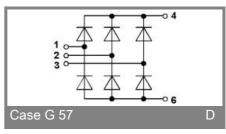






# **SKD 145**





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