

SEMIPONT® 7

Power Bridge Rectifier

SKD 230

Preliminary Data

Features

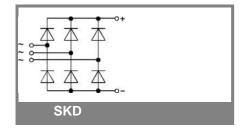
- Robust plastic case with screw terminals
- Heat transfer through aluminium oxide ceramic isolated metal base plate
- Blocking voltage up to 1800V
- · High surge current
- · lead free solder
- UL -recognition applied for file no. E 63 532

Typical Applications

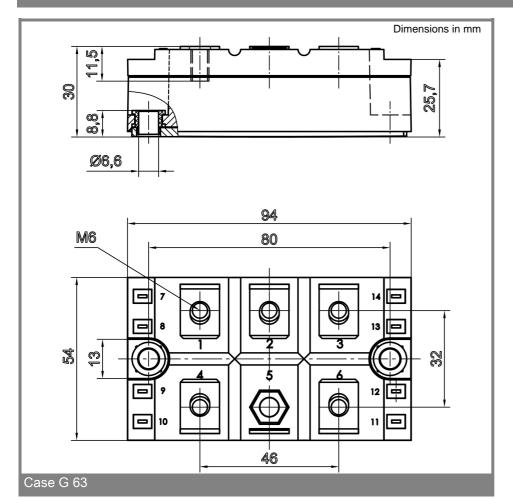
- Three phase rectifier for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

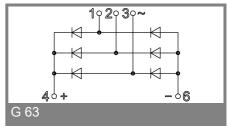
V _{RSM}	V_{RRM}, V_{DRM}	I _D = 230 A (full conduction)
V	V	(T _c = 110 °C)
900	800	SKD 230/08
1300	1200	SKD 230/12
1700	1600	SKD 230/16
1900	1800	SKD 230/18

Symbol	Conditions	Values	Units
I _D	T _c = 110 °C	230	Α
I _D	T _c = 100 °C	260	Α
I_D	T _c = 85 °C	310	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	2200	Α
	T _{vi} = 150 °C; 10 ms	1900	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	24200	A²s
	T _{vj} = 150 °C; 8,3 10 ms	18050	A²s
V _F	T _{vi} = 25 °C; I _F = 300 A	max. 1,75	V
$V_{(TO)}$	T _{vi} = 150 °C	0,8	V
r _T	T _{vj} = 150 °C	3,8	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 0,5	mA
I _{RD}	$T_{vj} = 150 ^{\circ}\text{C}, V_{DD} = V_{DRM}, V_{RD} = V_{RRM}$	max. 6	mA
R _{th(j-c)}	per diode	0,32	K/W
trig-c)	total	0,0533	K/W
R _{th(c-s)}	total	0,03	K/W
T _{vi}		- 40 + 150	°C
T _{stq}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 (3000)	V
M _s	to heatsink	5 ± 15 %	Nm
Mt	to terminal	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	250	g
Case		G 63	



SKD 230





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