SKD 230

SEMIPONT® 7

Power Bridge Rectifier

SKD 230

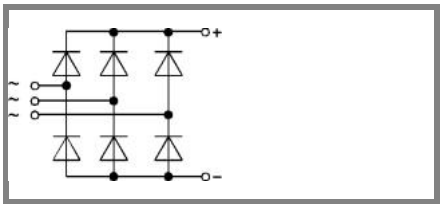
Preliminary Data

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



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V_{RSM} V	V_{RRM}, V_{DRM} V	I_D = 230 A (full conduction) (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	A
I_D	T_c = 100 °C	260	A
I_D	T_c = 85 °C	310	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	2200	A
	T_{vj} = 150 °C; 10 ms	1900	A
i²t	T_{vj} = 25 °C; 8,3 ... 10 ms	24200	A²s
	T_{vj} = 150 °C; 8,3 ... 10 ms	18050	A²s
V_F	T_{vj} = 25 °C; I_F = 300 A	max. 1,75	V
$V_{(TO)}$	T_{vj} = 150 °C	0,8	V
r_T	T_{vj} = 150 °C	3,8	mΩ
I_{RD}	T_{vj} = 25 °C; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}	max. 0,5	mA
I_{RD}	T_{vj} = 150 °C, V_{DD} = V_{DRM}, V_{RD} = V_{RRM}	max. 6	mA
$R_{th(j-c)}$	per diode	0,32	K/W
	total	0,0533	K/W
$R_{th(c-s)}$	total	0,03	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 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
M_t	to terminal	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	250	g
Case		G 63	

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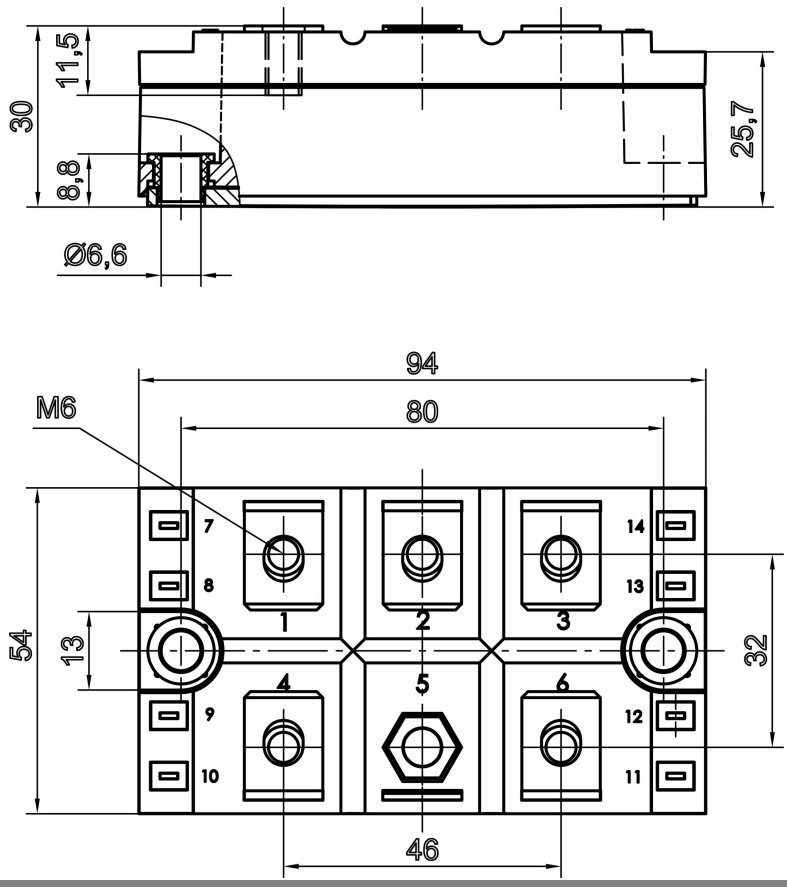
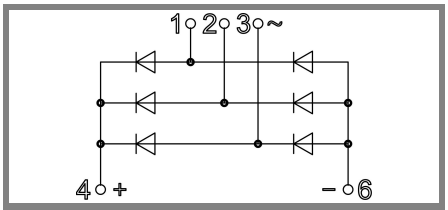
Dimensions in mm



Case G 63



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