SKD 100



SEMIPONT[®] 2

Power Bridge Rectifiers

SKD 100

Features

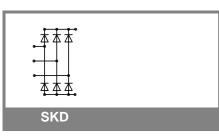
- Robust plastic case with screw terminals
- Large, isolated base plate
- Blocking voltage to 1600 V
- High surge currents
- Three phase bridge rectifier
- Easy chassis mounting
- UL recognized, file no. E 63 532

Typical Applications

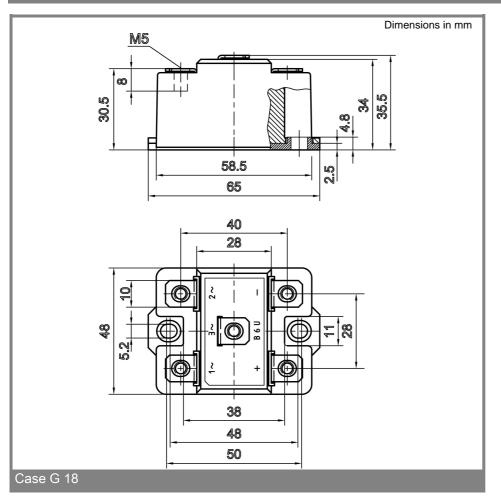
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- 1) Painted metal sheet of minimum 250 x 250 x 1 mm: Rh_{th(c-a)} = 1,8 K/W

V _{RSM}	V _{RRM} , V _{DRM}	I _D = 100 A (full conduction)
V	V	(T _c = 93 °C)
400	400	SKD 100/04
800	800	SKD 100/08
1200	1200	SKD 100/12
1400	1400	SKD 100/14
1600	1600	SKD 100/16

Symbol	Conditions	Values	Units
I _D	T _c = 85 °C	110	А
-	inductive load		А
	T _a = 45 °C, chassis ¹⁾	24	А
	T _a = 45 °C; P13A/125 (P1A/120)	28 (54)	А
	T _a = 35 °C, P1A/120F (P1A/200F)	100 (120)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	1150	А
	T _{vi} = 125 °C; 10 ms	1000	А
i²t	T _{vi} = 25 °C; 8,3 10 ms	6600	A²s
	T _{vj} = 125 °C; 8,3 10 ms	5000	A²s
V _F	T _{vi} = 25 °C; I _F = 150 A	max. 1,35	V
V _(TO)	T _{vi} = 125 °C	max. 0,85	V
r _T	T _{vi} = 125 °C	max. 5	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 0,5	mA
	T_{vj}^{2} = 125 °C, V_{RD} = V_{RRM}	2	mA
R _{th(j-c)}	per diode	0,85	K/W
11(10)	total	0,14	K/W
R _{th(c-s)}	total	0,05	K/W
T _{vi}		- 40 + 125	°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 _s	to terminals	5 ± 15 %	Nm
m		165	g
Case		G 18	



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