SKKD 380

THYRISTOR BRIDGE,SCR BRIDGE

SEMIPACK® 3

Rectifier Diode Modules

SKKD 380

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precisious metal pressure contacts for high reliability
- UL recognized, file no. E 63 532

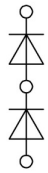
Typical Applications

- Uncontrolled rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

1) The screws must be lubricated

V_{RSM} V	V_{RRM} V	I_{FRMS} = 600 A (maximum value for continuous operation) I_{FAV} = 380 A (sin. 180; T_c = 100 °C)		
900	800	SKKD 380/08		
1300	1200	SKKD 380/12		
1700	1600	SKKD 380/16		
1900	1800	SKKD 380/18		
2100	2000	SKKD 380/20H4		
2300	2200	SKKD 380/22H4		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T_c = 100 °C	380	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	11000	A
	T_{vj} = 150 °C; 10 ms	10000	A
i^2t	T_{vj} = 25 °C; 8,3 ... 10 ms	605000	A^2s
	T_{vj} = 150 °C; 8,3 ... 10 ms	500000	A^2s
V_F	T_{vj} = 25 °C; I_F = 1000 A	max. 1,25	V
$V_{(TO)}$	T_{vj} = 150 °C	max. 0,8	V
r_T	T_{vj} = 150 °C	max. 0,35	mΩ
I_{RD}	T_{vj} = 150 °C; V_{RD} = V_{RRM}	max. 15	mA
$R_{th(j-c)}$	cont. per diode / per module	0,11 / 0,055	K/W
	sin. 180 per diode / per module	0,116 / 0,058	K/W
$R_{th(c-s)}$	per diode / per module	0,04 / 0,02	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 40 ... + 130	°C
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min. for SKK ...H4	4800 / 4000	V~
M_s	to heatsink	5 ± 15 %	Nm
M_t	to terminals	9 ± 15 %[1)]	Nm
a		5 * 9,81	m/s²
m	approx.	600	g
Case		A 78b	



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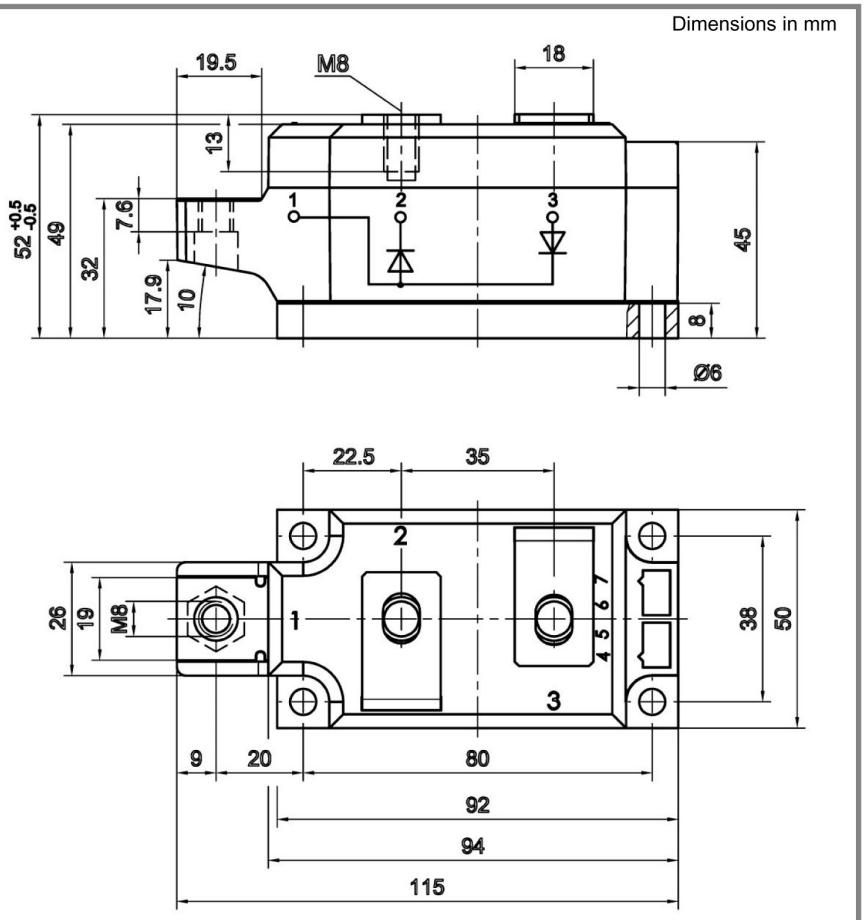

Case A 78b

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