



Rectifier Diode Modules

SKKD 81
SKKE 81

Features

- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

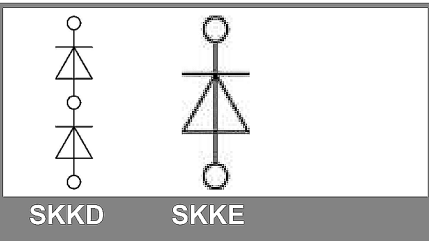
Typical Applications

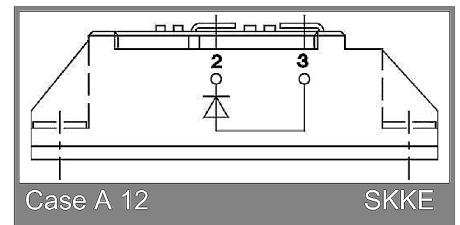
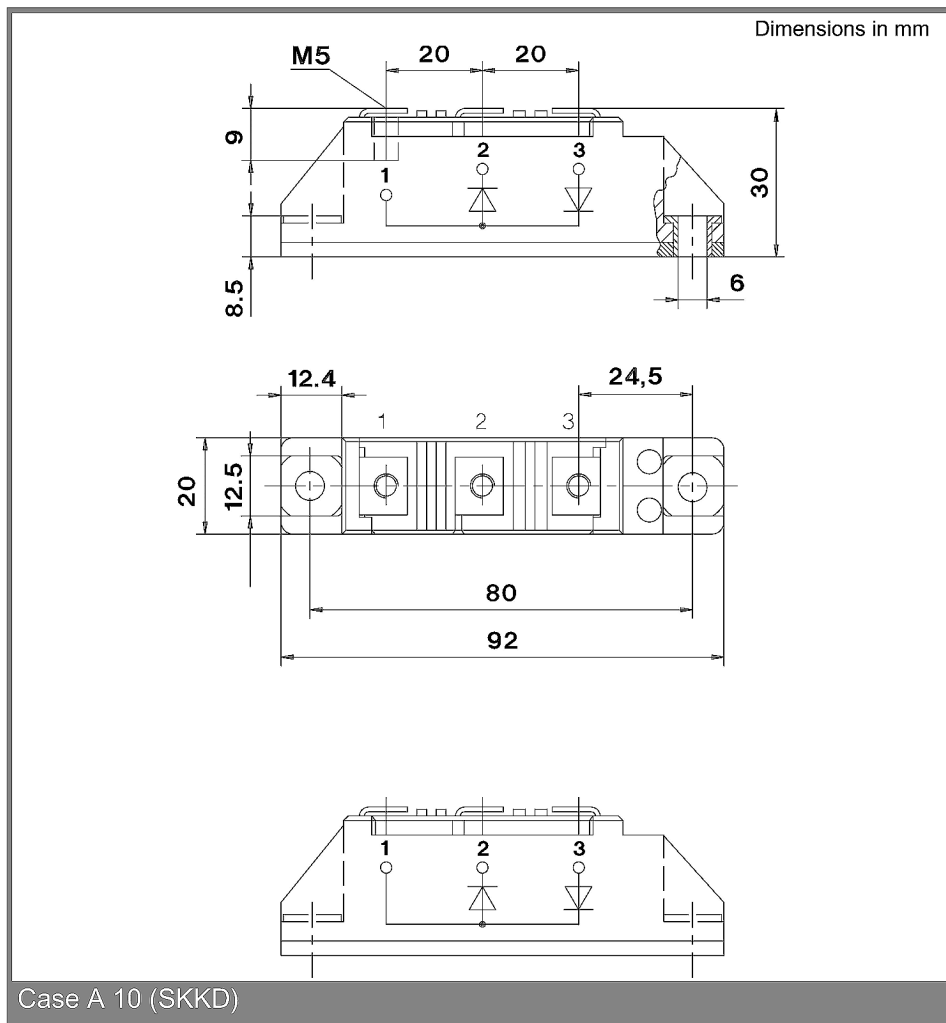
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- Free-wheeling diodes

1) SKKD types only

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 140\text{ A}$ (maximum value for continuous operation) $I_{FAV} = 80\text{ A}$ (sin. 180; $T_c = 87\text{ °C}$)	
500	400	SKKE 81/04	SKKD 81/04
700	600	SKKE 81/06	SKKD 81/06
900	800	SKKE 81/08	SKKD 81/08
1300	1200	SKKE 81/12	SKKD 81/12
1500	1400	SKKE 81/14	SKKD 81/14
1700	1600	SKKE 81/16	SKKD 81/16
1900	1800	SKKE 81/18	SKKD 81/18
2100	2000	SKKE 81/20H4	SKKD 81/20H4
2300	2200	SKKE 81/22H4	SKKD 81/22H4

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 85\text{ (100) °C}$	82 (57)	A
I_D	P3/120; $T_a = 45\text{ °C}$; B2 / B6	63 / 70	A
	P3/180F; $T_a = 35\text{ °C}$; B2 / B6	135 / 175	A
I_{FSM}	$T_{vj} = 25\text{ °C}$; 10 ms	2000	A
	$T_{vj} = 125\text{ °C}$; 10 ms	1750	A
i^2t	$T_{vj} = 25\text{ °C}$; 8,3 ... 10 ms	20000	A ² s
	$T_{vj} = 125\text{ °C}$; 8,3 ... 10 ms	15000	A ² s
V_F	$T_{vj} = 25\text{ °C}$; $I_F = 300\text{ A}$	max. 1,55	V
$V_{(TO)}$	$T_{vj} = 125\text{ °C}$	max. 0,85	V
r_T	$T_{vj} = 125\text{ °C}$	max. 1,8	mΩ
I_{RD}	$T_{vj} = 125\text{ °C}$; $V_{RD} = V_{RRM}$	max. 4,5	mA
$R_{th(j-c)}$	per diode / per module ¹⁾	0,4 / 0,2	K/W
$R_{th(c-s)}$	per diode / per module ¹⁾	0,2 / 0,1	K/W
T_{vj}		- 40 ... + 125	°C
T_{stg}		- 40 ... + 125	°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	3 ± 15 %	Nm
a		5 * 9,81	m/s ²
m	approx.	95	g
Case	SKKD	A 10	
	SKKE	A 12	





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