SKKD 162, SKKE 162



SEMIPACK[®] 2

Rectifier Diode Modules

SKKD 162 SKKE 162

Features

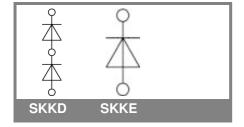
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

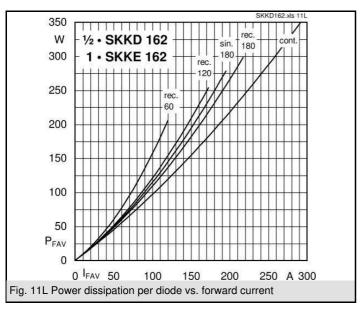
Typical Applications*

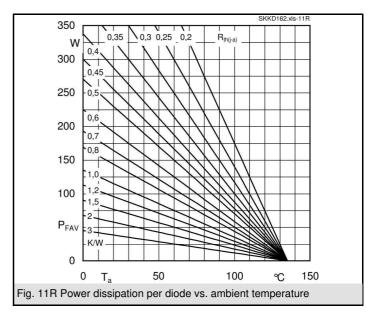
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- 1) SKKD types only

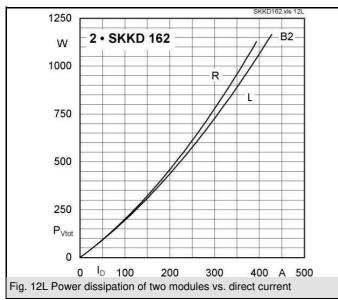
V _{RSM}	V_{RRM}	I _{FRMS} = 310 A (maximum value for continuous operation)		
V	V	I _{FAV} =	160 A (sin. 180; T _c = 95 °C)	
900	800	SKKD 162/08	SKKE 162/08	
1300	1200	SKKD 162/12	SKKE 162/12	
1500	1400	SKKD 162/14	SKKE 162/14	
1700	1600	SKKD 162/16	SKKE 162/16	
1900	1800	SKKD 162/18	SKKE 162/18	
2100	2000	SKKD 162/20H4		
2300	2200	SKKD 162/22H4	SKKE 162/22H4	

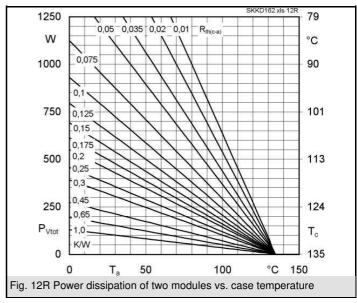
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	195 (150)	Α
I_D	P3/180; T _a = 45 °C; B2 / B6	90 / 115	Α
	P3/180F; T _a = 35 °C; B2 / B6	210 / 260	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	6000	Α
	T _{vi} = 125 °C; 10 ms	5000	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	180000	A²s
	$T_{vj} = 125 ^{\circ}\text{C}; 8,3 \dots 10 \text{ms}$	125000	A²s
V _F	T _{vi} = 25 °C; I _F = 500 A	max. 1,5	V
$V_{(TO)}$	T _{vi} = 135 °C	max. 0,85	V
r _T	T _{vj} = 135 °C	max. 1,2	$m\Omega$
I_{RD}	$T_{vj} = 135 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	max. 9	mA
R _{th(j-c)}	per diode / per module 1)	0,18 / 0,09	K/W
R _{th(c-s)}	per diode / per module 1)	0,1 / 0,05	K/W
T_{vj}		- 40 + 135	°C
T _{stg}		- 40 + 135	°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 SKKH4	4800 / 4000	V~
M _s	to heatsink	5 ± 15 %	Nm
M _t	to terminals	5 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	165	g
Case	SKKD	A 23	
	SKKE	A 24	
	SKKE H4	A 54	

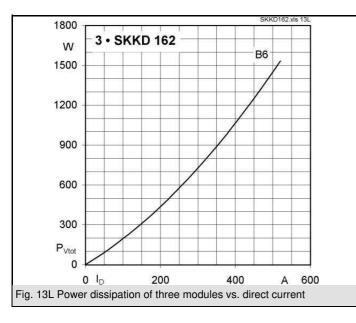


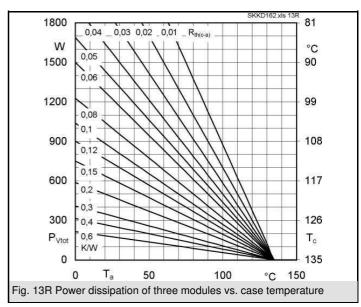




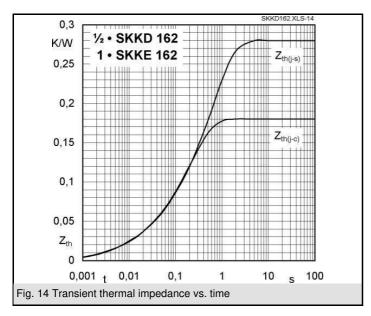


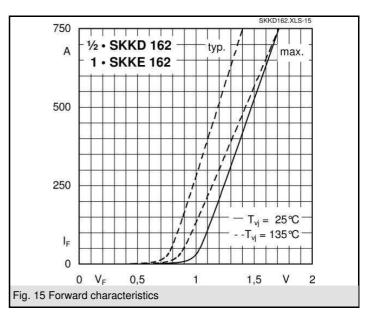


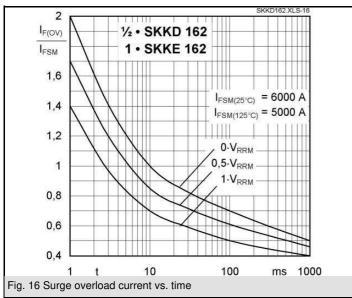




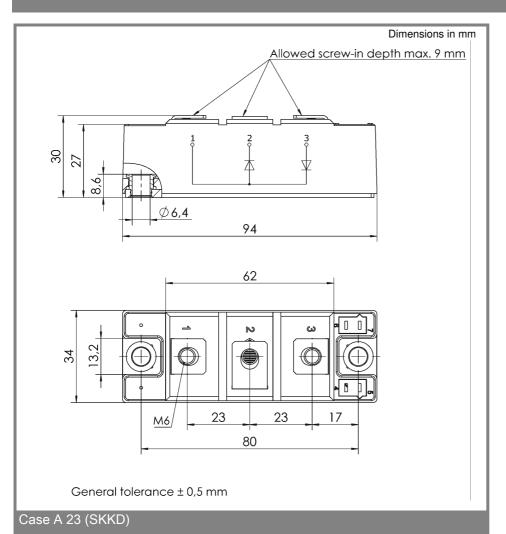
SKKD 162, SKKE 162

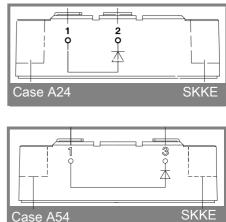






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This is an electrostatic discharge sensitive device (ESDS) due to international standard IEC 61340.

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