

SKKD 15, SKKE 15



SEMIPACK® 0

Rectifier Diode Modules

SKKD 15
SKKE 15

Features

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

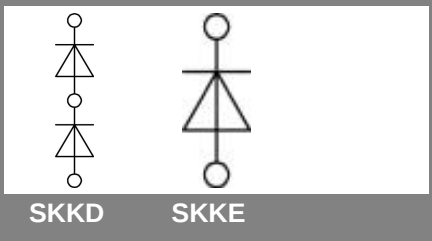
Typical Applications

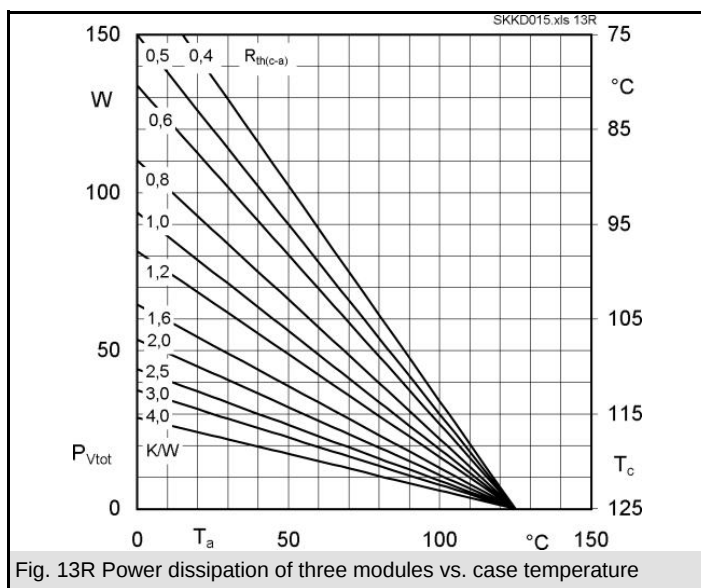
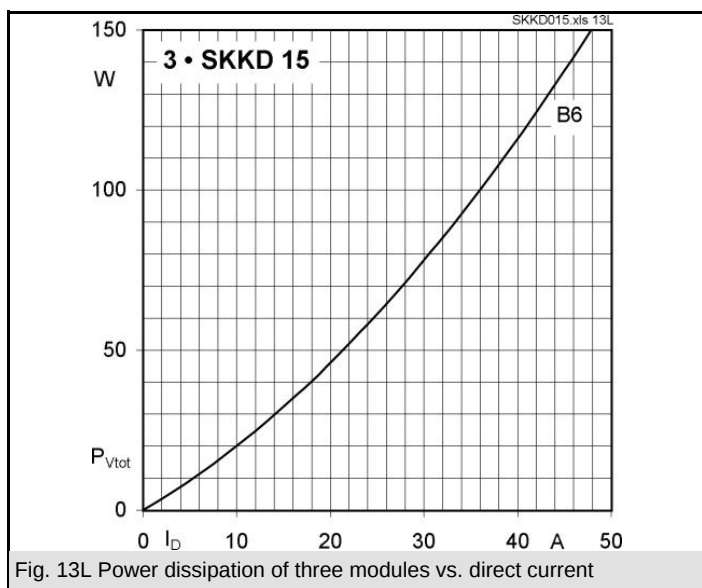
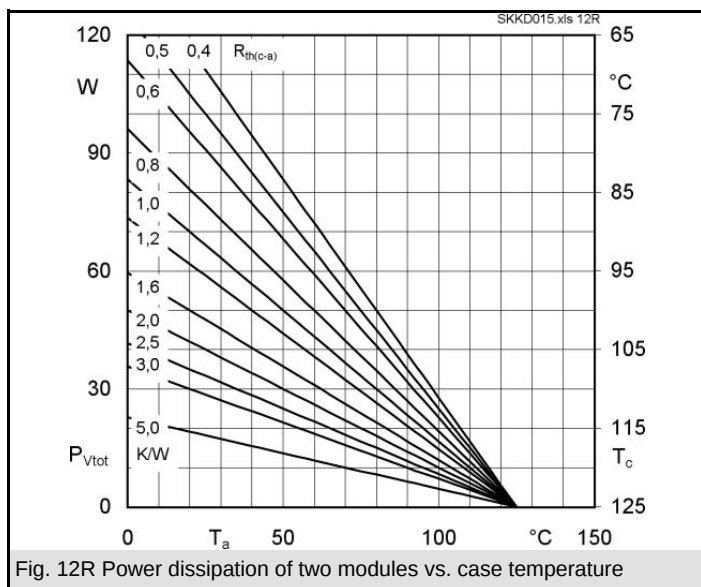
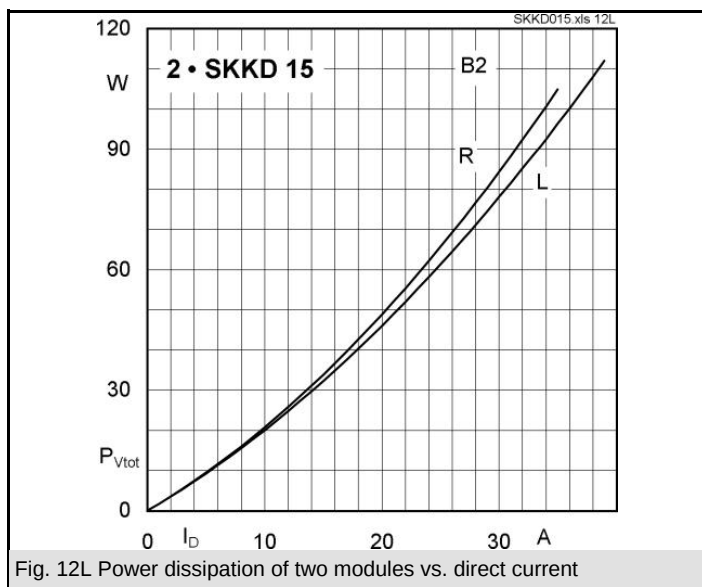
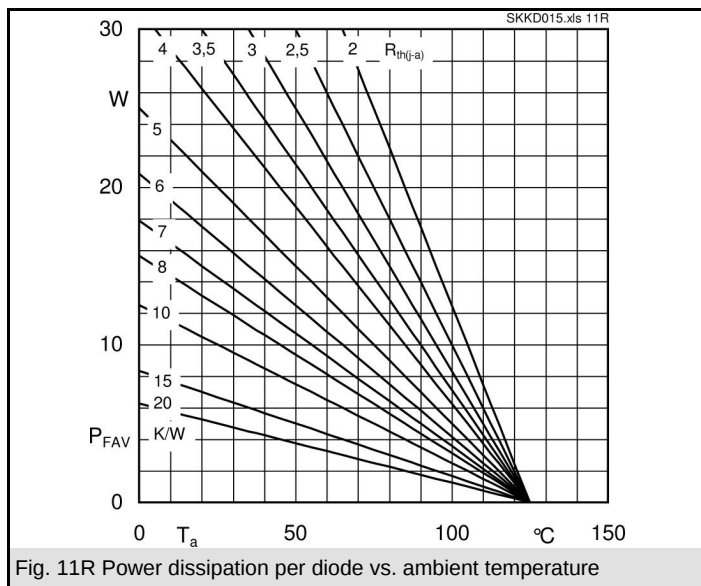
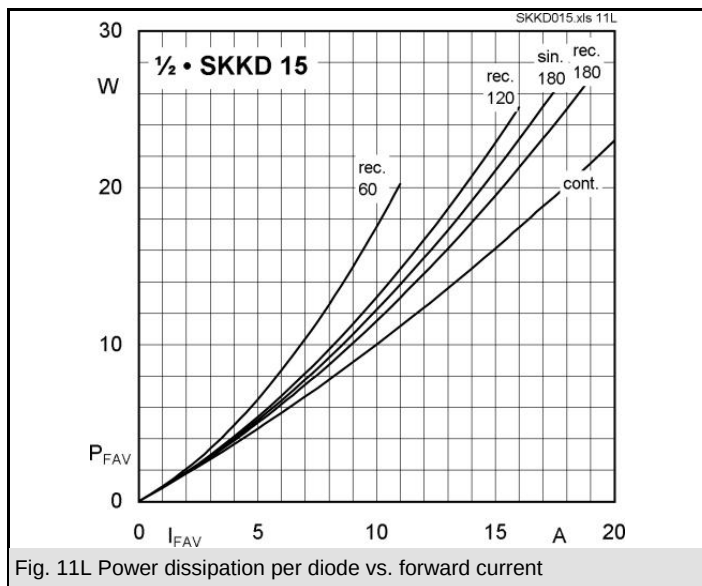
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- SKKE: Free-wheeling diodes

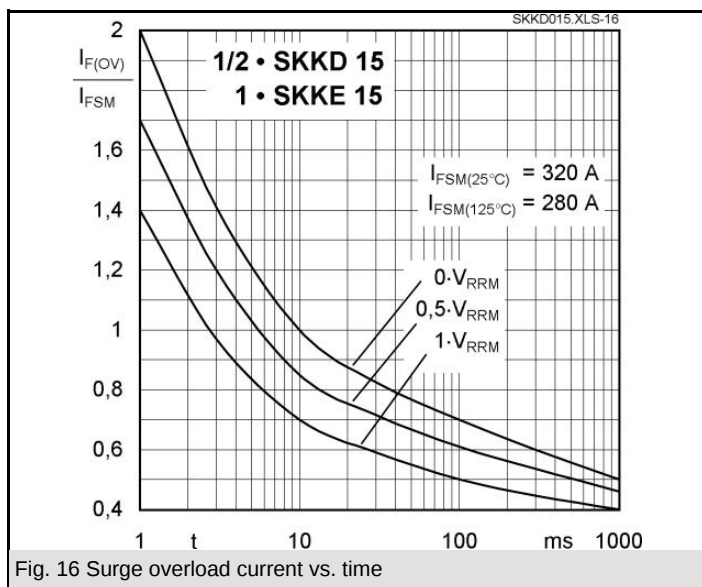
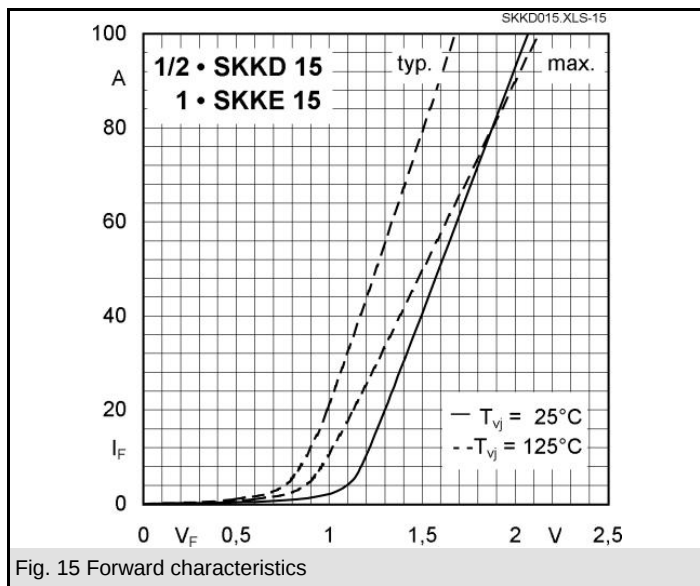
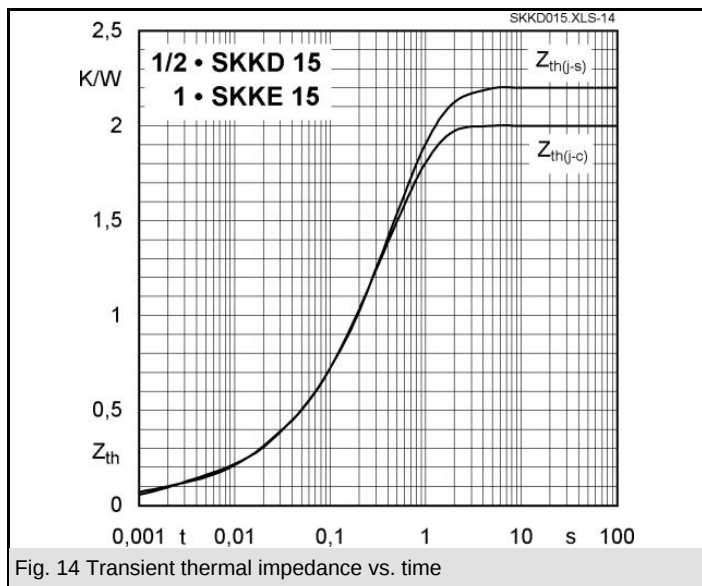
1) SKKD types only

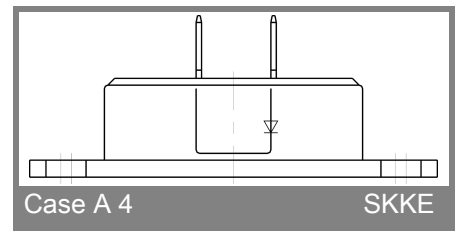
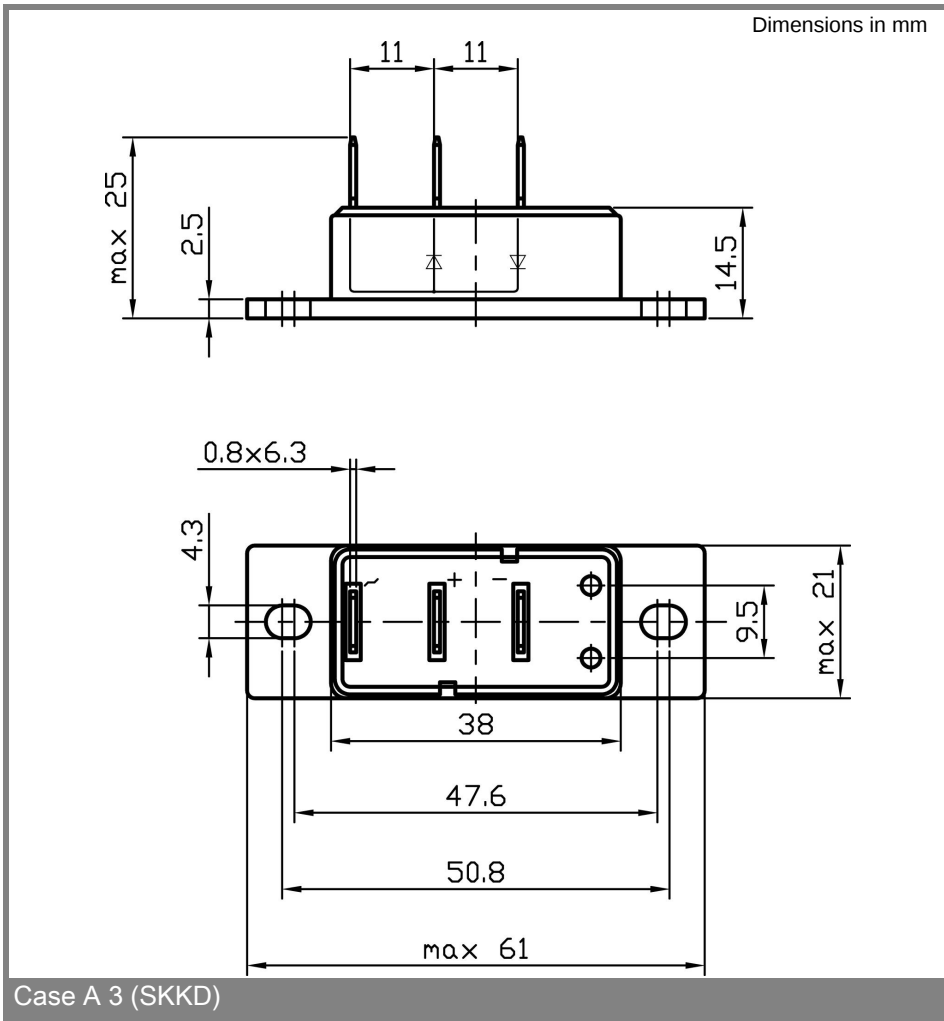
V_{RSM} V	V_{RRM} V	$I_{FRMS} = 24\text{ A}$ (maximum value for continuous operation) $I_{FAV} = 15\text{ A}$ (sin. 180; $T_c = 82\text{ °C}$)		
700	600	SKKD 15/06	SKKE 15/06	
900	800	SKKD 15/08	SKKE 15/08	
1300	1200	SKKD 15/12	SKKE 15/12	
1500	1400	SKKD 15/14	SKKE 15/14	
1700	1600	SKKD 15/16	SKKE 15/16	

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 85\text{ (100) °C}$	14 (10)	A
I_D	P13A/125; $T_a = 45\text{ °C}$; B2 / B6	18 / 22,5	A
I_{FSM}	$T_{vj} = 25\text{ °C}$; 10 ms	320	A
	$T_{vj} = 125\text{ °C}$; 10 ms	280	A
i^2t	$T_{vj} = 25\text{ °C}$; 8,3 ... 10 ms	510	A ² s
	$T_{vj} = 125\text{ °C}$; 8,3 ... 10 ms	390	A ² s
V_F	$T_{vj} = 25\text{ °C}$; $I_F = 75\text{ A}$	max. 1,85	V
$V_{(TO)}$	$T_{vj} = 125\text{ °C}$	max. 0,85	V
r_T	$T_{vj} = 125\text{ °C}$	max. 15	mΩ
I_{RD}	$T_{vj} = 125\text{ °C}$; $V_{RD} = V_{RRM}$	max. 2,5	mA
$R_{th(j-c)}$	per diode / per module ¹⁾	2 / 1	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~
M_s	to heatsink	1,5 ± 15 %	Nm
a		5 * 9,81	m/s ²
m	approx.	50	g
Case	SKKD SKKE	A 3 A 4	









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