

# SKKD 15, SKKE 15



**SEMIPACK<sup>®</sup> 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

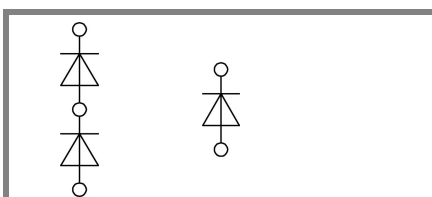
### Typical Applications

- 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	$I_{FRMS} = 24$ A (maximum value for continuous operation) $I_{FAV} = 15$ A (sin. 180; $T_c = 82$ °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

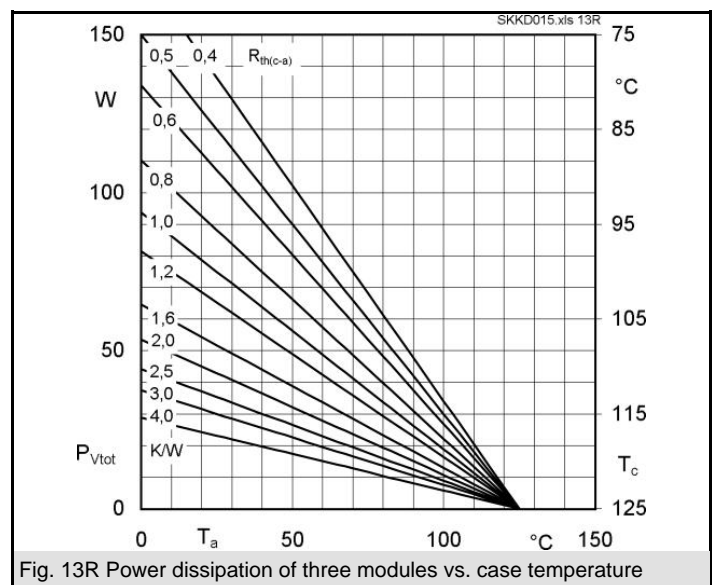
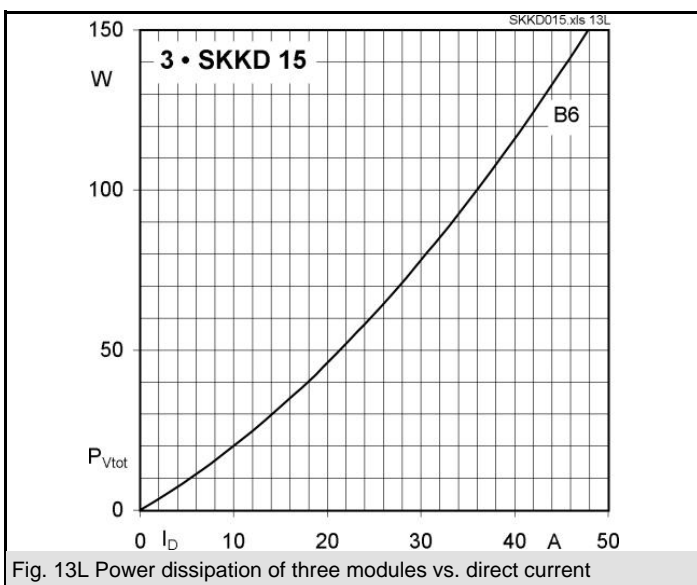
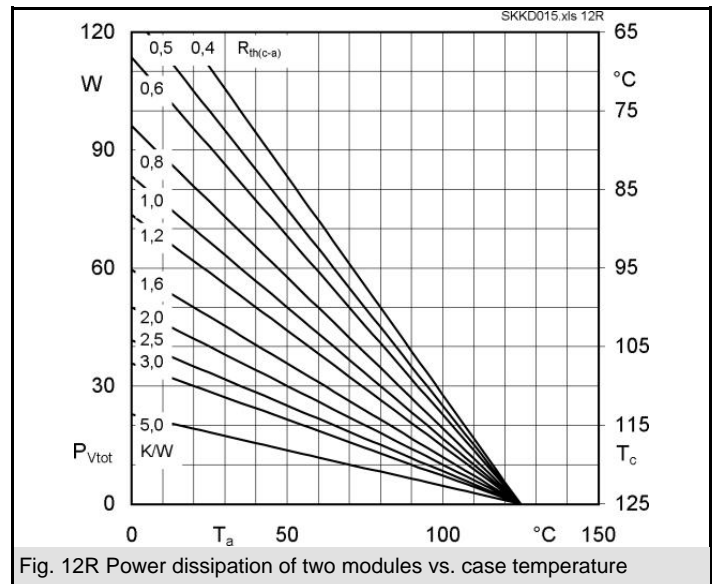
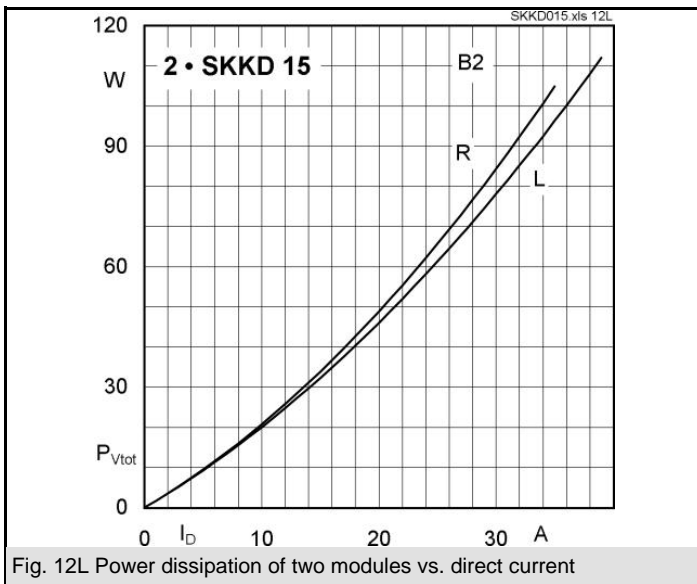
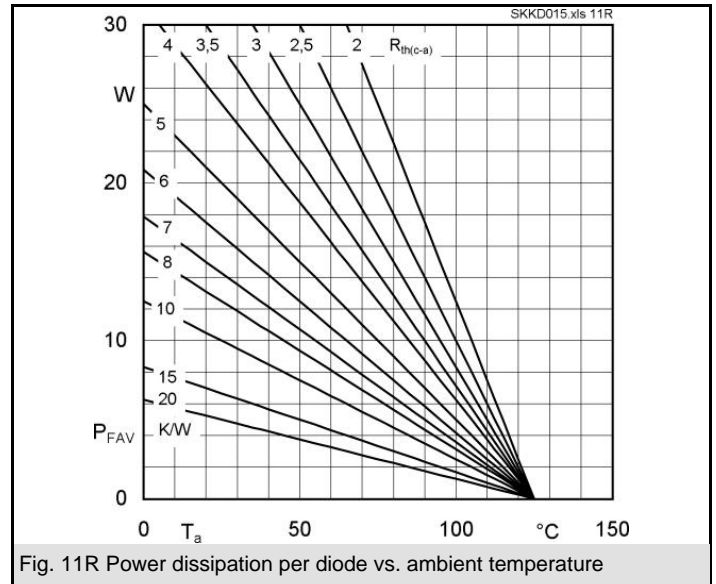
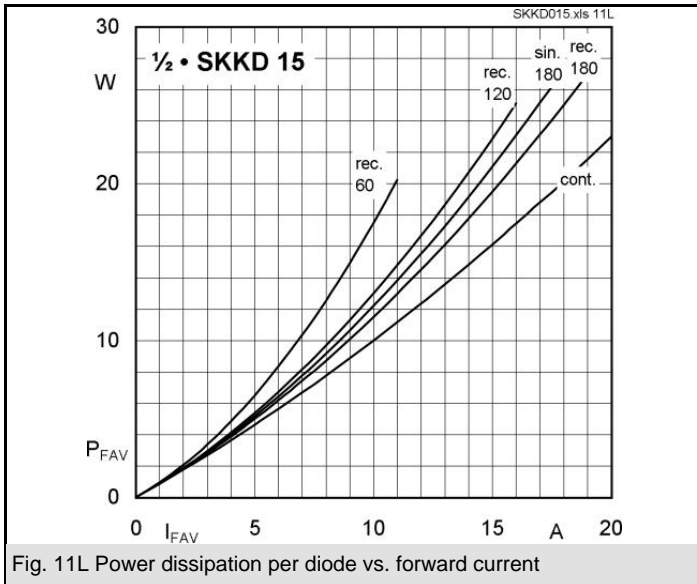
Symbol	Conditions	Values	Units
$I_{FAV}$	sin. 180; $T_c = 85$ (100) °C	14 (10)	A
$I_D$	P13A/125; $T_a = 45$ °C; B2 / B6	18 / 22,5	A
$I_{FSM}$	$T_{vj} = 25$ °C; 10 ms	320	A
	$T_{vj} = 125$ °C; 10 ms	280	A
$i^2t$	$T_{vj} = 25$ °C; 8,3 ... 10 ms	510	A <sup>2</sup> s
	$T_{vj} = 125$ °C; 8,3 ... 10 ms	390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



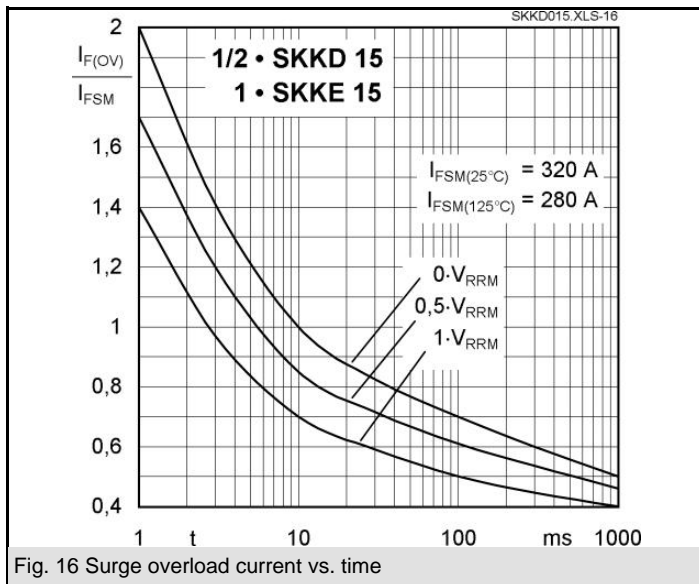
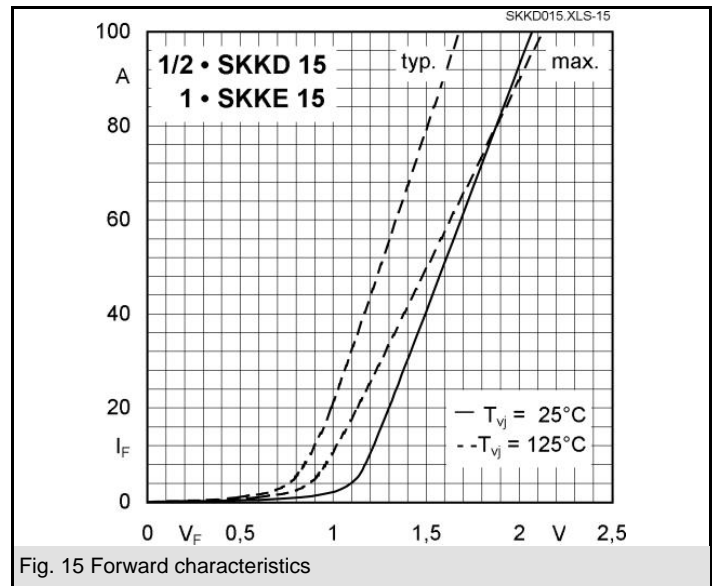
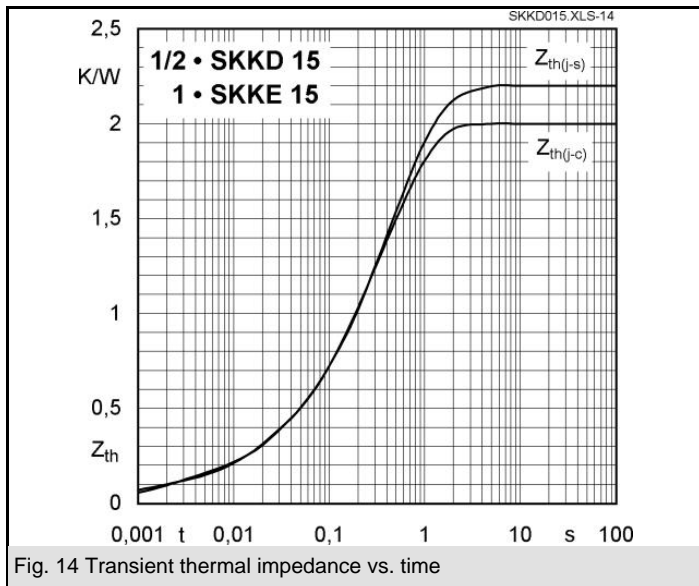
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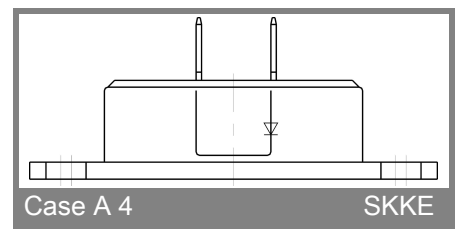
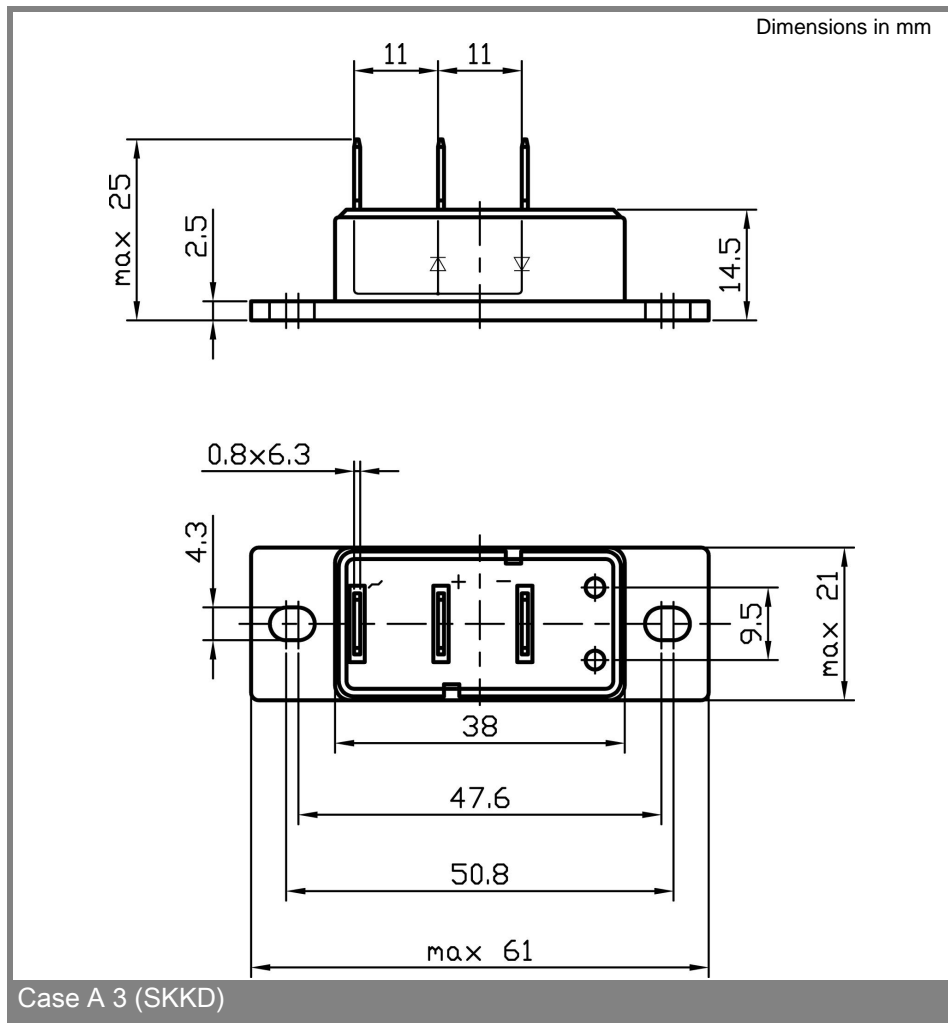
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