



SEMIPACK® 1

Rectifier Diode Modules

SKKD 46

Features

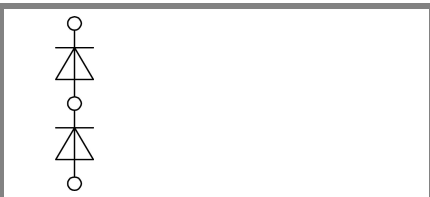
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

Typical Applications

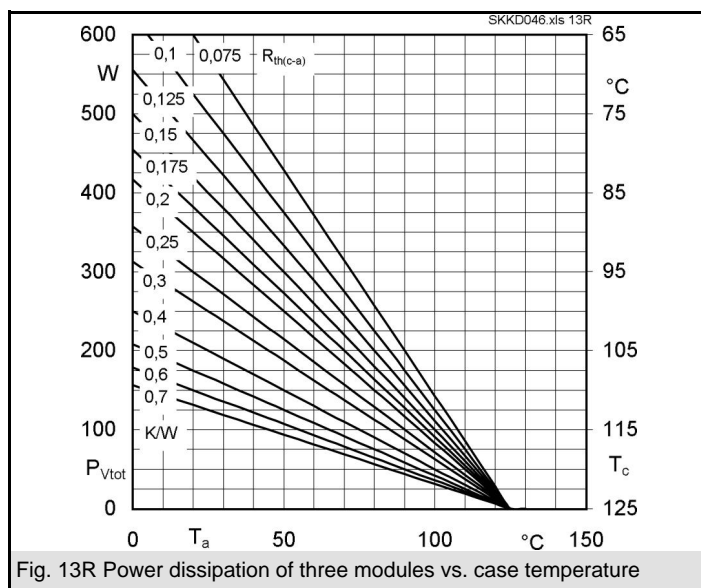
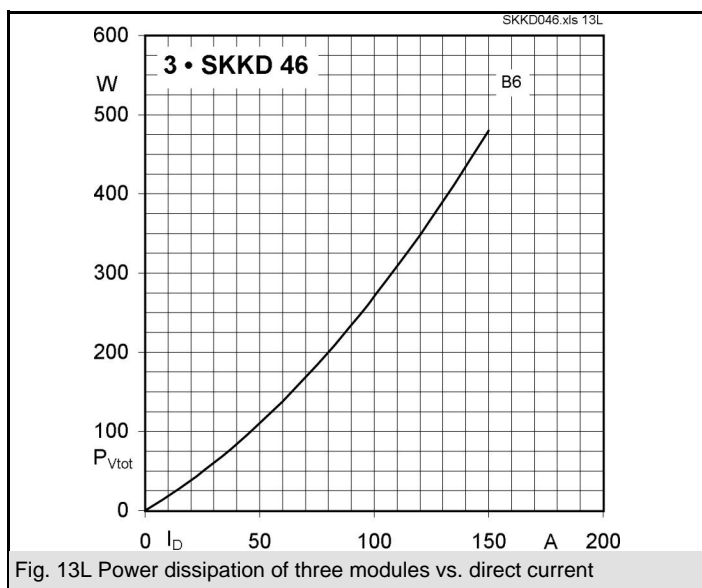
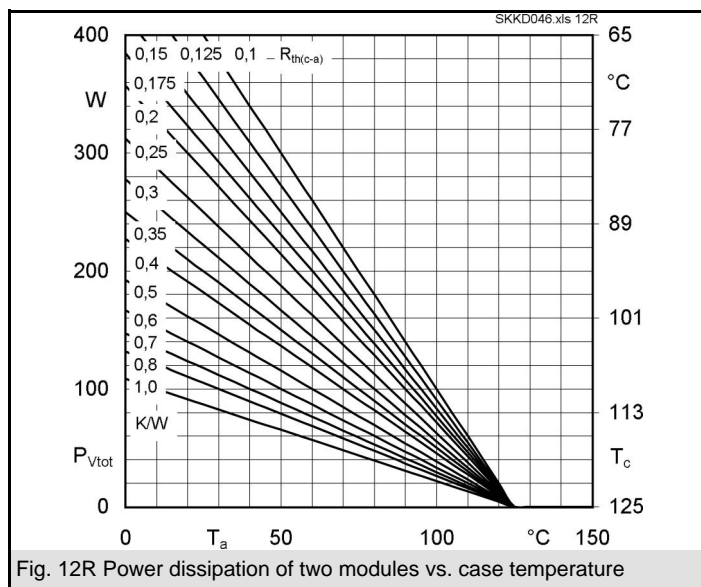
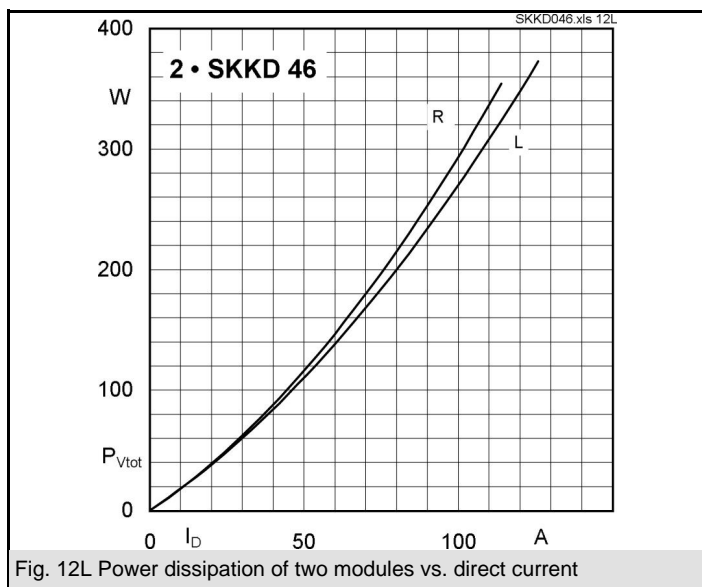
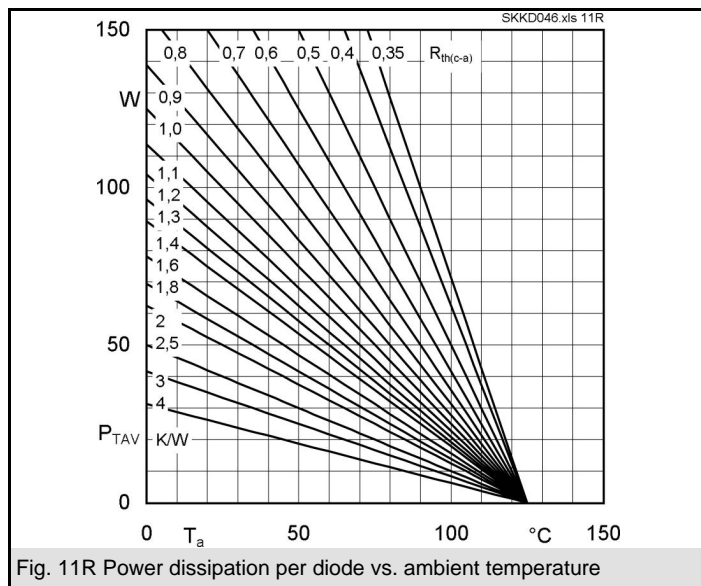
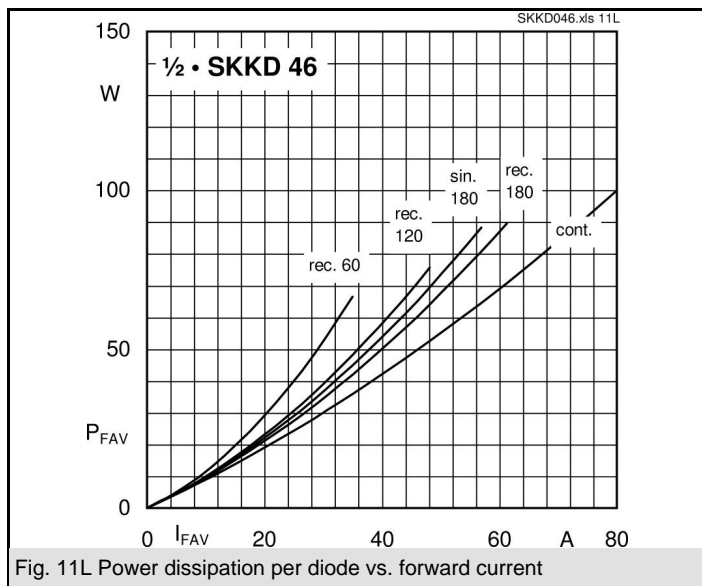
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

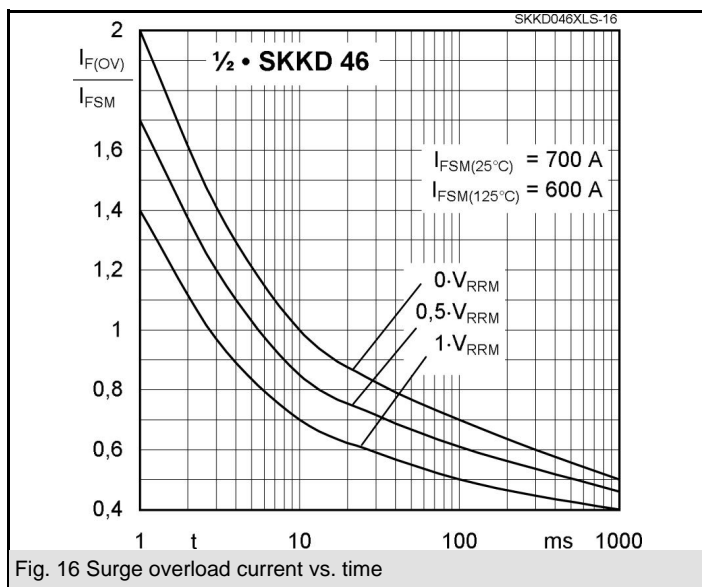
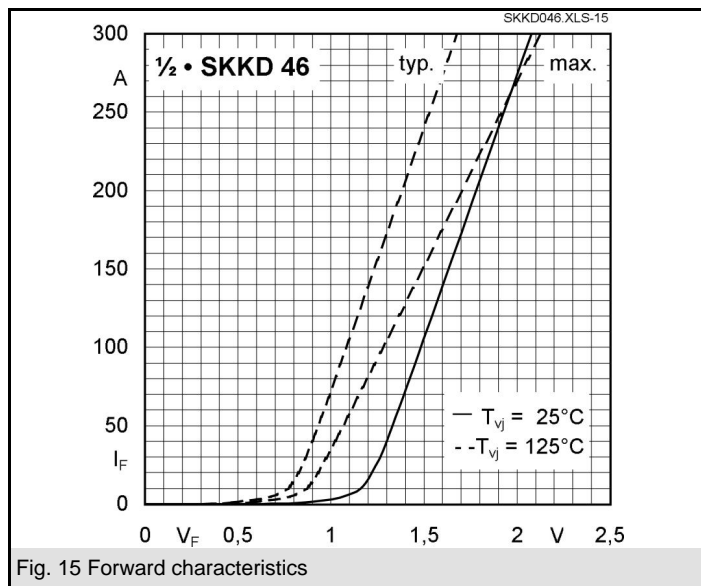
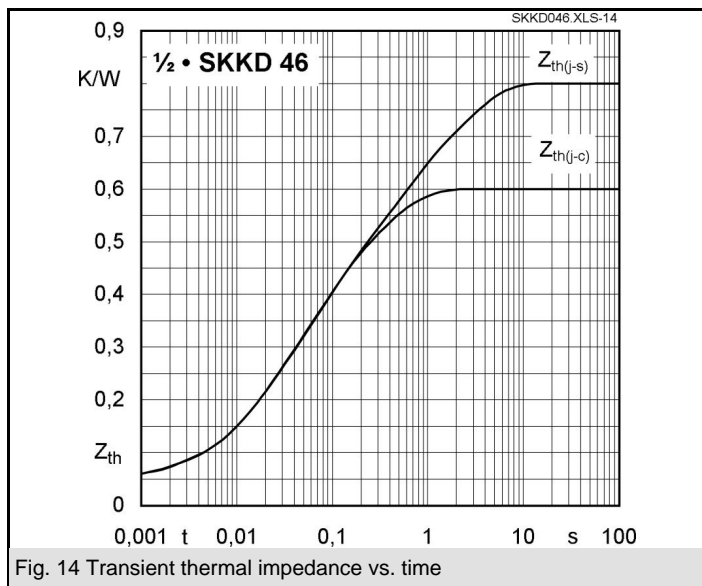
$V_{RSM}$ V	$V_{RRM}$ V	$I_{FRMS} = 90\text{ A}$ (maximum value for continuous operation) $I_{FAV} = 45\text{ A}$ (sin. 180; $T_c = 86\text{ }^{\circ}\text{C}$ )		
500	400	SKKD 46/04		
700	600	SKKD 46/06		
900	800	SKKD 46/08		
1300	1200	SKKD 46/12		
1500	1400	SKKD 46/14		
1700	1600	SKKD 46/16		
1900	1800	SKKD 46/18		

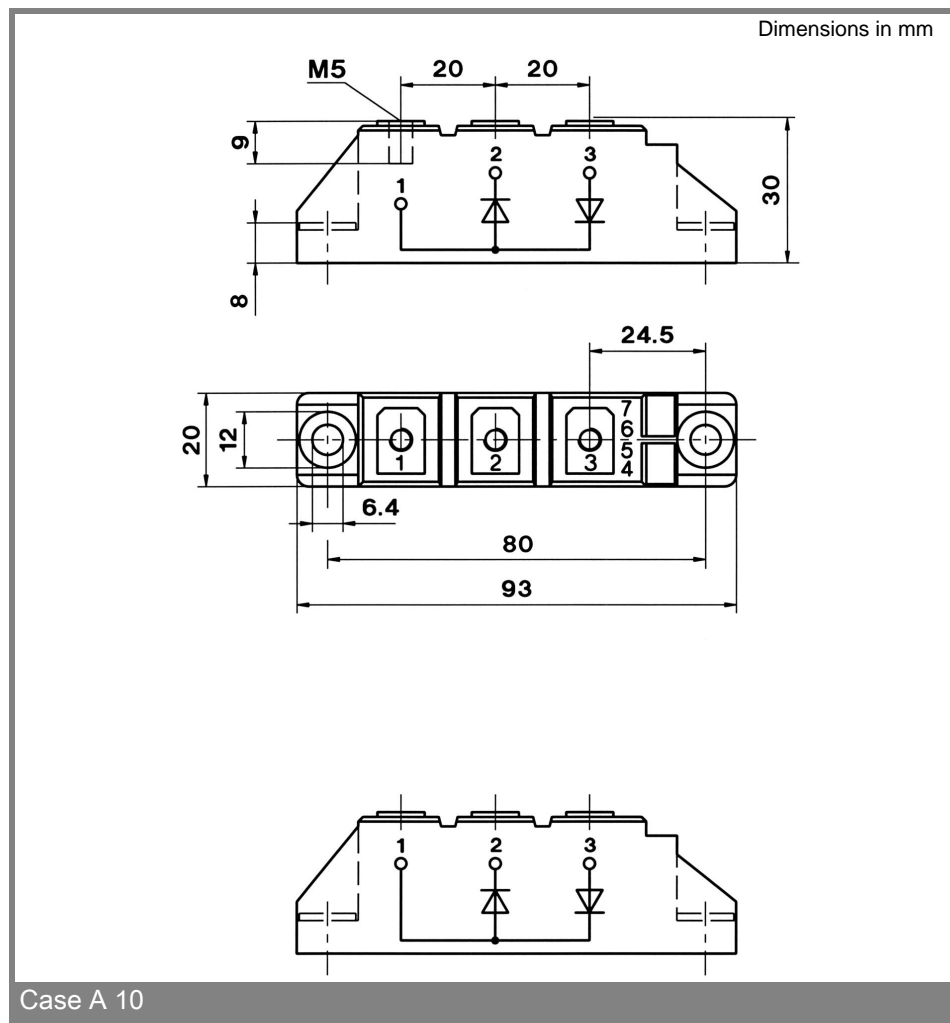
Symbol	Conditions	Values	Units
$I_{FAV}$	sin. 180; $T_c = 85\text{ (100) }^{\circ}\text{C}$	47 (33)	A
$I_D$	P3/120; $T_a = 45\text{ }^{\circ}\text{C}$ ; B2 / B6	50 / 60	A
	P3/180F; $T_a = 35\text{ }^{\circ}\text{C}$ ; B2 / B6	95 / 120	A
$I_{FSM}$	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ; 10 ms	700	A
	$T_{vj} = 125\text{ }^{\circ}\text{C}$ ; 10 ms	600	A
$i^2t$	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ; 8,3 ... 10 ms	2450	A <sup>2</sup> s
	$T_{vj} = 125\text{ }^{\circ}\text{C}$ ; 8,3 ... 10 ms	1800	A <sup>2</sup> s
$V_F$	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ; $I_F = 250\text{ A}$	max. 1,95	V
$V_{(TO)}$	$T_{vj} = 125\text{ }^{\circ}\text{C}$	0,85	V
$r_T$	$T_{vj} = 125\text{ }^{\circ}\text{C}$	5	mΩ
$I_{RD}$	$T_{vj} = 125\text{ }^{\circ}\text{C}$ ; $V_{RD} = V_{RRM}$	max. 3	mA
$R_{th(j-c)}$	per diode / per module	0,6 / 0,3	K/W
$R_{th(c-s)}$	per diode / per module	0,2 / 0,1	K/W
$T_{vj}$		- 40 ... + 125	$^{\circ}\text{C}$
$T_{stg}$		- 40 ... + 125	$^{\circ}\text{C}$
$V_{isol}$	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
$M_s$	to heatsink	5 ± 15 %	Nm
$M_t$	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s <sup>2</sup>
m	approx.	95	g
Case		A 10	



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